NEWER PRODUCTS ARE AVAILABLE

XP Power

AC-DC Open Frame

AC-DC Enclosed

DC-DC Converters

Externals / Desktops

Configurable

DIN Rail

LED Drivers

Power Supply **Selector**

Edition No.1

Global Power Solutions

People

- Global support
- Industry specific sales team
- Technically trained
- Solution orientated

Engineering

- Local engineering support
- Standard products
- Modified standards
- Engineered solutions group

Manufacturing

- Best in class
- Low cost – China
- Competitive lead-times
- Expansion in Vietnam

XP Power reduces the production and running costs of your equipment enabling you to gain a competitive advantage

Product

- Broadest product offering
- Leading edge
- Flexible platforms
- Industry specific solutions

Green

- High efficiency power
- Low standby power
- EICC member
- ISO14001

Quality

- Stringent design/de-rating
- Risk analysis
- Out of box audit
- ISO13485/ISO9001

Our mission

To inspire our people to be The Experts in Power delivering genuine value to our customers.

We are committed to providing the best technical and commercial solution for your power needs.

- Exclusive focus on power conversion
- Worldwide sales of $150 million
- Local engineering and sales support
- London Stock Exchange listed
- ISO9001 certified quality management system

XP

THE XPERTS IN POWER

Power Supply **Selector**

Welcome to the new format XP Power Supply Selector, designed to help you quickly find the best power solution for your application.

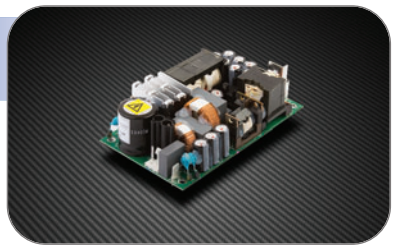
Latest Products

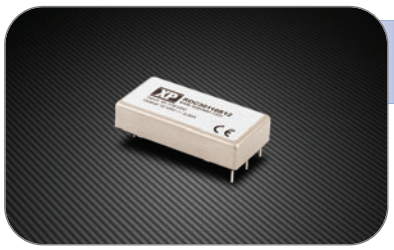
ECE05/10

- 5 - 10 Watts
- Ultra compact AC-DC module
- Encapsulated PCB mount

CCB200

- 200 Watts
- Convection-cooled
- Up to 95% efficiency



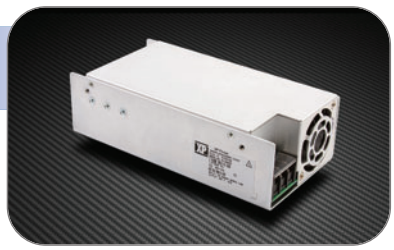


RDC30

- 30 Watts
- DC-DC for rail applications
- Single, dual & triple output

SHP350

- 350 Watts
- Rugged industrial construction
- Peak power available



Online Selector Tools

XP Power presents two new online product selection tools for engineers that ease the process of choosing a power supply.

Available from the XP Power web site, the product selector allows searching by product type or by application type from a choice of over 2,500 models in XP Power's product line-up.

The second selection tool now available is a free dedicated app for use on Apple® iOS® or Android™-based smartphones and devices. Both versions are available from their respective digital download marketplaces.

Contents

XP Power

Industry Focus

Healthcare

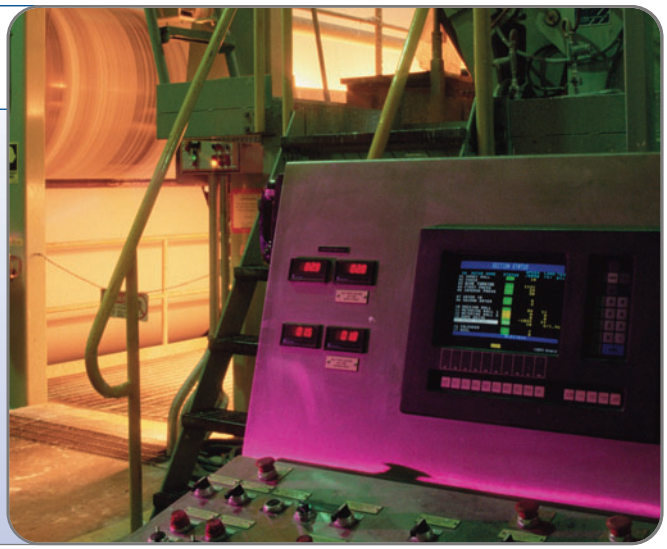
Our products are designed for use in both the hospital and non-hospital environments. Understanding the requirements of our target customers has led to product features that are incorporated for a reason, such as class II approvals for homecare devices, highly efficient convection-cooled designs for low noise patient area devices and defibrillator-proof DC-DC converters for applied part applications.

The mission critical nature of medical devices demands high quality, reliable and safe products. During the design and manufacturing phases we use processes such as DFMEA (Design Failure Mode Effects Analysis) and PFMEA (Process Failure Mode Effects Analysis) to ensure our products are as reliable and safe as possible. In addition, our Kunshan facility has ISO13485 certification for the manufacturing of medical devices.

Industrial

Our industrial products are designed to satisfy the legislative and safety requirements that are unique to the industrial sector. XP's product range covers applications in factory automation, automated test equipment, industrial control, test and measurement, instrumentation, hazardous environments and defense. Our team of technical sales specialists is well versed in the individual needs of your specific sector.

Whether your system demands high peak loads for motors, extended temperature range for outdoor applications, field replaceable fans or the need to operate in hazardous environments, you will find a solution from our broad range of industrial power supplies.

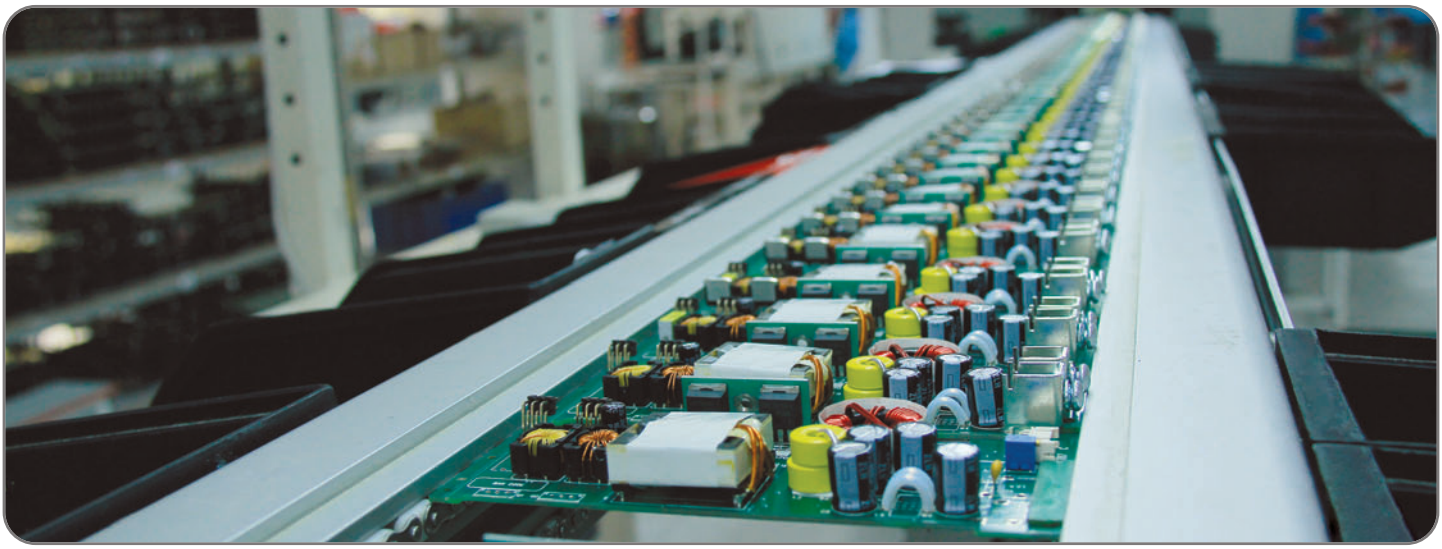


Technology

Our extensive range allows us to satisfy the diverse application requirements seen in communications, audio/visual broadcast equipment and semiconductor production equipment. The demand for smaller, fully featured power converters with both AC and DC input requirements has driven the development of market leading products.

We continue to design power supplies with digital control suitable for PMBus, and "green" power products employing very low no load power consumption and high efficiency levels. For outdoor applications we offer conduction-cooled solutions which operate over a wide temperature range making them suitable for use in sealed enclosures and harsh environments. In critical applications where the AC supply is not always reliable, XP offers SEMI F47 ratings on many of our supplies.

Quality Assured



State-of-the-art manufacturing

Manufacturing

Our first state-of-the-art manufacturing facility located near Shanghai, China, opened in June 2009. It uses class leading manufacturing techniques and equipment. This starts from rigorous supplier selection and incoming component inspection through to automatic testing of the final product. Throughout the manufacturing process we make use of the latest capital equipment to improve throughput and enhance product reliability.

Our new Vietnam facility is the world's most environmentally advanced power converter manufacturing factory and is the first building in Vietnam to meet the Singapore Building Construction Authority's Green Mark Gold Plus certification, a standard applicable to buildings in tropical climates. This covers not only the energy efficiency of the building but also water efficiency, environmental protection, indoor environmental quality and other green features and innovations. The facility features a photovoltaic solar panel array to help provide power. Rain water is collected for use within "grey water" systems in the building. High efficiency air conditioning systems have been deployed and energy saved through an efficient building envelope.

Quality

Every customer has their own unique standards and definition of quality. XP Power understands the importance of quality and is proactive in all facets of its business to continually improve quality standards and exceed customer expectations. XP Power has developed a culture within the organization in which quality is the core foundation and continuous improvement activities are the norm. Quality is an organizational commitment and this is communicated and transparent throughout all levels of the business.

All of XP Power's key facilities have achieved registration with the ISO9001 quality management standard. Our Kunshan factory has also been accredited to ISO13485 which is the quality management system for medical device manufacturers. These were implemented so that the management systems are under one structure which has helped XP Power ensure consistency of our quality practices and objectives throughout the organization. Highlights of XP Power's progressive quality management program include:

Customer Quality Assurance

- Customer feedback through surveys
- Defective Parts Per Million tracking and trending
- Account management through use of e-tools

Manufacturing Quality Assurance

- State-of-the-art manufacturing facility
- Kaizen team projects to improve the output of our operations
- Ongoing reliability testing throughout the life cycle of the product

Design Quality Assurance

- Industry leading component de-rating guidelines
- Risk Management Program
- Design and Specification Verification Testing

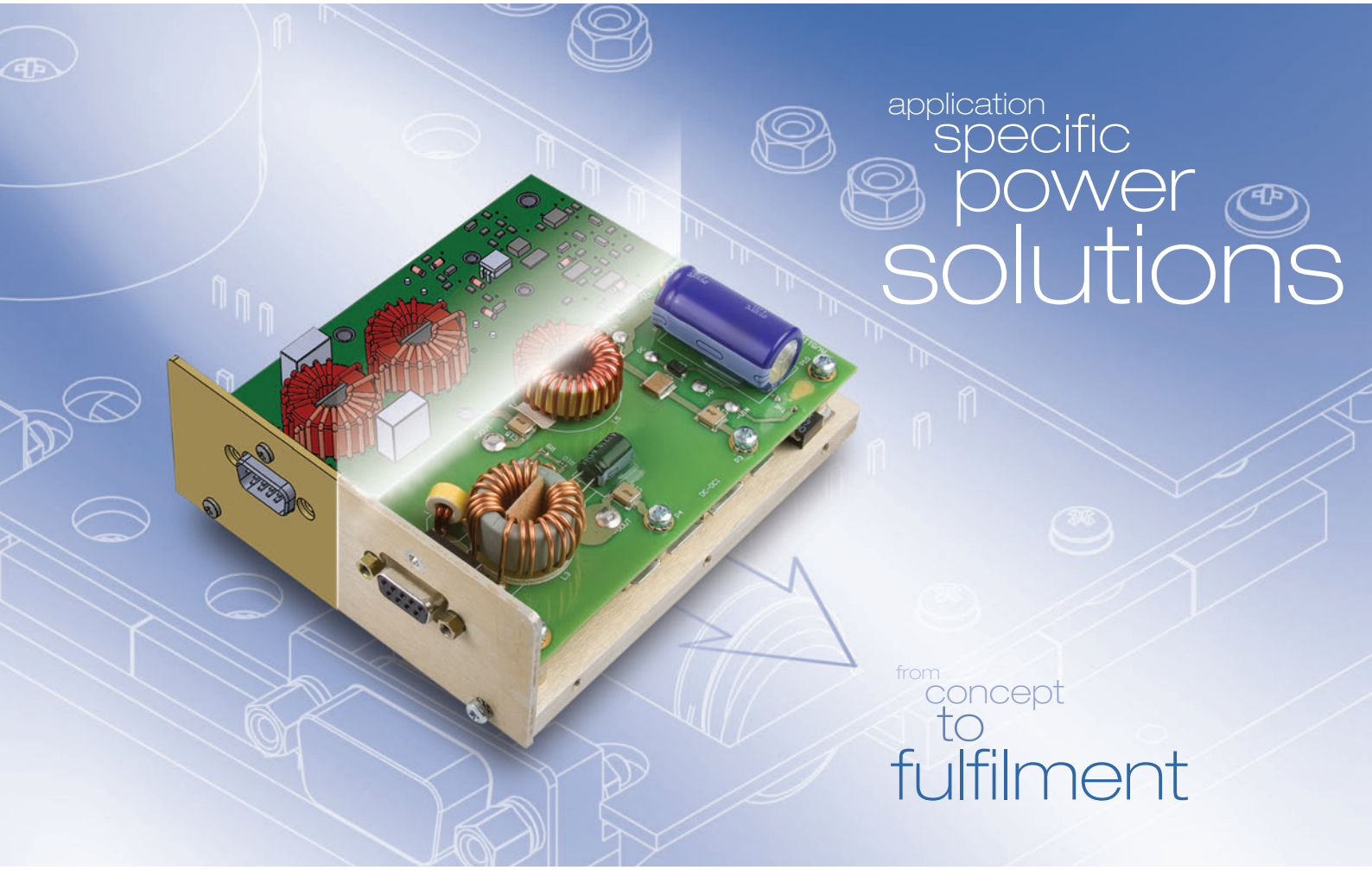
Supplier Quality Assurance

- Cross functional supplier assessment group
- Material qualification program
- Ongoing monitoring of supplier quality, delivery and cost performance

Ongoing reliability testing

Vietnam manufacturing facility

Engineered Solutions



XP Engineering Services provides solutions where applications cannot be fulfilled from our standard product range or where integrated products are required. We offer the world's strongest standard product range, which provides us with a vast selection of power platforms from which to deliver complex modified standards.

We design and manufacture cost effective application specific solutions that meet your electrical, mechanical, safety, EMC and thermal management requirements, while ensuring a fast time to market.

- **Low development cost**
- **Low risk, proven technology**
- **World class design**
- **Short development times**
- **Worldwide local engineering support**
- **Low cost manufacturing in Asia**
- **ISO 9001 certified quality management system**

Mechanical Design

- 3D-model, photo-rendering, animation
- Thermal, stress and mass simulation
- Environmentally sealed units

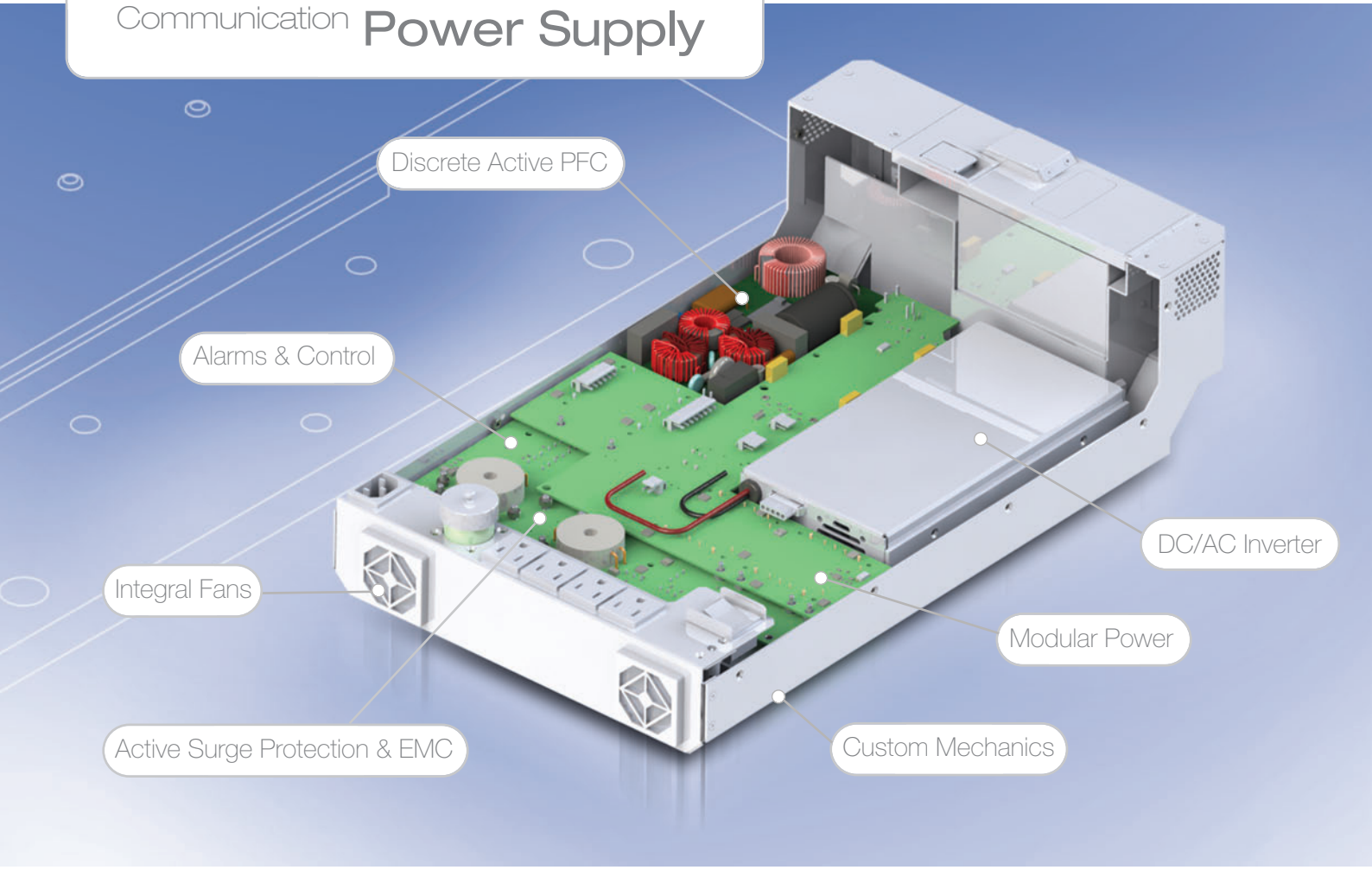
Electrical Design

- Filter design for specific noise and ripple standards
- I²C interface requirements for power supply health and control
- Blind-mate, hot-swap experts
- Embedded micro-processor based design
- Schematic capture / simulation
- Compliance with defense specifications

Quality and Test

- 100% parametric DVT testing
- In-system troubleshooting
- System specific testing can also be provided
  - Turnkey EMC certification
  - HALT / HASS integrity testing
  - Burn-in

AC and DC Input Rugged Communication Power Supply



Printed Circuit Board Design

- Timely electrical assemblies improving customer time-to-market
- Safety specific creepage and clearance
- Design for manufacturability
- PCB modeling & layout

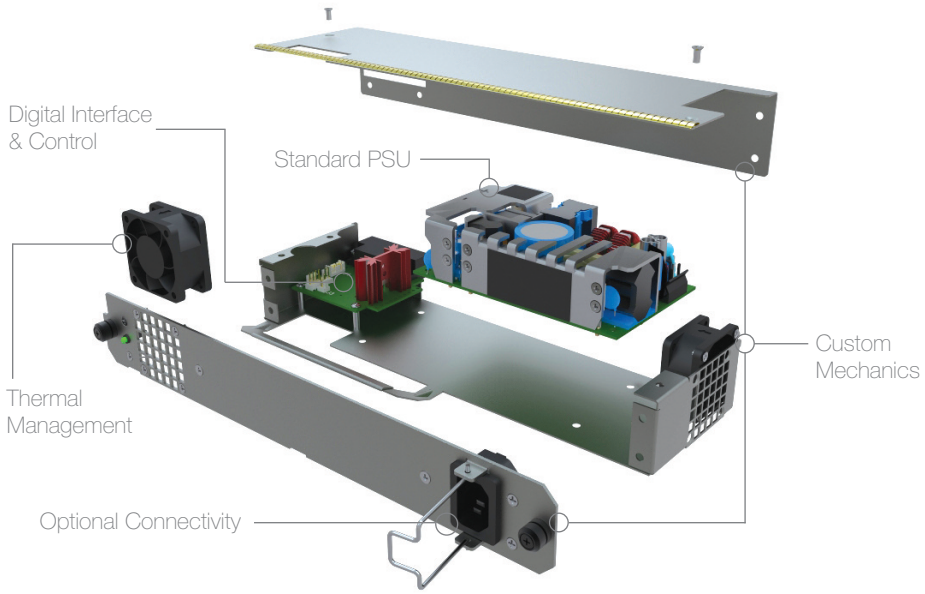
Software Programming

- In-house software / firmware development
- Serial bus interfaces - I²C & RS232 / 422
- Software / firmware functionality
  - Smart battery interface (SMBus)
  - Battery charging
  - Power supply sequencing
  - Power supply alarm and control

Safety & Compliance

- Compliance engineering
- Expert knowledge of UL, TUV, CSA, CE & CB schemes
- NEBS & ETSI compliance
- IT, industrial & medical safety standards
- IT, industrial & medical EMC compliance
- MIL STD & DEF STAN EMC compliance

Field Replaceable Plug & Play Solutions



AC–DC Selector Guide

5-20 Watts

ECE05
- 5 Watts
- 1.00" x 1.00" x 0.60"
- Single Output
- PCB Mount
- Encapsulated
- **Page 12**

ECL05
- 5 Watts
- 2.00" x 1.00" x 0.90"
- Single Output
- PCB & Chassis Mount
- Class II
- **Page 12**

ECE10
- 10 Watts
- 1.00" x 1.45" x 0.60"
- Single Output
- PCB Mount
- Encapsulated
- **Page 12**

ECL10
- 10 Watts
- 2.00" x 1.00" x 0.90"
- Single Output
- Class II
- PCB & Chassis Mount
- **Page 12**

ECL15
- 15 Watts
- 2.44" x 1.21"x 0.95"
- Single & Multi Outputs
- PCB & Chassis Mount
- Class II
- **Page 12**

EML15
- 15 Watts
- 2.44" x 1.21" 0.95"
- Single Output
- PCB & Chassis Mount
- Class II
- **Page 13**

ECE20
- 20 Watts
- 2.06" x 1.07" 0.91"
- Single Output
- PCB & Chassis Mount
- Encapsulated
- **Page 13**

25-40 Watts

ECL25
- 25 Watts
- 2.96" x 1.36" x 1.05"
- Single Output
- PCB & Chassis Mount
- Class II
- **Page 13**

ECS25
- 25 Watts
- 3.00" x 2.00" x 0.95"
- Single Output
- <0.3 W Standby Power
- Class I & II
- **Page 14**

ECL30
- 30 Watts
- 2.96" x 1.36" x 1.05"
- Single & Multi Outputs
- PCB & Chassis Mount
- Class II
- **Page 13**

ECE40
- 40 Watts
- 3.10" x 1.50" x 1.10"
- Single Output
- PCB & Chassis Mount
- DIN Rail Option
- **Page 13**

ECM40
- 40 Watts
- 4.00" x 2.00" x 1.20"
- Single & Multi Outputs
- Class I & II
- Convection-cooled
- **Page 16**

ECP40
- 40 Watts
- 3.00" x 2.00" x 0.90"
- Single & Multi Outputs
- Class I
- Low Profile
- **Page 14**

45-70 Watts

ECS45
- 45 Watts
- 3.00" x 2.00" x 1.05"
- Single Output
- <0.3W Standby Power
- Class I & II
- **Page 14**

VCS50
- 50 Watts
- 4.35" x 3.07" x 1.38"
- Single Output
- Convection-cooled
- Low Cost
- **Page 16**

ECM60
- 60 Watts
- 4.00" x 2.00" x 1.20"
- Single & Multi Outputs
- Class I & II
- Convection-cooled
- **Page 16**

ECP60
- 60 Watts
- 4.00" x 2.00" x 1.20"
- Single & Multi Outputs
- Low Profile
- Peak Load Capacity
- **Page 14**

ECS60
- 60 Watts
- 3.00" x 2.00" x 1.05"
- Single Output
- <0.5 W Standby Power
- Class I & II
- **Page 14**

ECS65
- 65 Watts
- 4.00" x 2.00" x 1.05"
- Single Output
- <0.5 W Standby Power
- Low Leakage Current
- **Page 17**

VCS70
- 70 Watts
- 5.12" x 3.88" x 1.61"
- Single Output
- Convection-cooled
- Low Cost
- **Page 16**

75-120 Watts

BCS75
- 75 Watts
- 4.80" x 3.74" x 1.33"
- Single Output
- DC Standby
- Battery Alarms
- **Page 19**

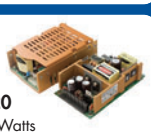
BCS100
- 100 Watts
- 4.80" x 3.74" x 1.33"
- DC Standby
- Battery Alarms
- Low Battery Disconnect
- **Page 19**

ECC100
- 100 Watts
- 5.00" x 4.10" x 1.78"
- Single Output
- Baseplate-cooled
- Remote On/Off
- **Page 15**

ECM100
- 100 Watts
- 4.50" x 2.50" x 1.20"
- Single & Multi Outputs
- Class I & II
- PoE Version
- **Page 16**

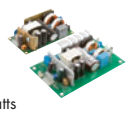
ECS100
- 100 Watts
- 4.00" x 2.00" x 1.25"
- Single Output
- <0.5 W Standby Power
- Class I & II
- **Page 17**

VCS100
- 100 Watts
- 6.26" x 3.87" x 1.65"
- Single Output
- Convection-cooled
- Low Cost
- **Page 16**



SDS120
- 120 Watts
- 5.00" x 3.20" x 1.54"
- Single & Multi Outputs
- Convection-cooled
- Mechanical Options
- **Page 20**

125-150 Watts



CLC125
- 125 Watts
- 4.00" x 2.00" x 1.25"
- Single Output
- Fan Output
- Low profile
- **Page 17**

ECS130
- 130 Watts
- 4.00" x 2.00" x 1.25"
- Class I & II
- High Efficiency
- 100 W Convection-cooled
- **Page 17**

ECP150
- 150 Watts
- 4.00" x 1.75" x 1.26"
- Single Output
- Fan Supply
- Up to 92% Efficiency
- **Page 18**

GCS150
- 150 Watts
- 5.00" x 3.00" x 1.42"
- Single Output
- Class I & II
- 110 W Convection-cooled
- **Page 20**

LCL150
- 150 Watts
- 7.55" x 3.74" x 1.97"
- Single Output
- Convection-cooled
- Low Cost
- **Page 24**

SDU150
- 150 Watts
- 5.00" x 3.21" x 1.66"
- Convection-cooled
- Fits 1U Applications
- Mechanical Options
- **Page 19**

SDS150
- 150 Watts
- 5.00" x 3.21" x 1.62"
- Single Output
- Convection-cooled
- Mechanical Options
- **Page 20**

155-225 Watts

BCS155
- 155 Watts
- 7.05" x 3.86" x 2.20"
- DC Standby
- Battery Alarms
- Low Battery Disconnect
- **Page 19**

RCL175
- 175 Watts
- 5.50" x 3.70" x 1.28"
- Single & Multi Outputs
- Class I & II
- Mechanical Options
- **Page 19**

GCS180
- 180 Watts
- 5.00" x 3.00" x 1.42"
- Class I & II
- Remote On/Off
- 150 W Convection-cooled
- **Page 20**

SDS180
- 180 Watts
- 5.00" x 3.21" x 1.54"
- Single Output
- Convection-cooled
- Mechanical Options
- **Page 20**

CCB200
- 200 Watts
- 5.00" x 3.00" x 1.43"
- Single Output
- Convection-cooled
- Up to 95% Efficiency
- **Page 21**

ECP225
- 225 Watts
- 5.00" x 2.50" x 1.00"
- Single Output
- Fan Supply
- Up to 95% Efficiency
- **Page 21**

= Green Product ⊕ = Medical Version Available

250-300 Watts

CCB250
- 250 Watts
- 6.00" x 4.00" x 1.50"
- Single Output
- Convection-cooled
- Efficiency up to 95%
- **Page 22**

CCM250
- 250 Watts
- 6.00" x 4.00" x 1.54"
- Single Output
- Convection-cooled
- 5V Standby
- **Page 21**

EMH250
- 250 Watts
- 5.00" x 3.00" x 1.43"
- Single Output
- Medical BF Compliant
- 80-275 VAC Operation
- **Page 23**

LCL300
- 300 Watts
- 8.07" x 4.33" x 1.97"
- Single Output
- Remote On/Off
- Low Cost
- **Page 24**

SDF300
- 300 Watts
- 5.00" x 3.20" x 1.50"
- Single & Dual Outputs
- Fan Cover Options
- Remote On/Off
- **Page 22**

SDM300
- 300 Watts
- 5.00" x 3.20" x 1.50"
- Single & Dual Outputs
- Fan Cover Options
- Up to 600 W Peak Power
- **Page 22**

350-400 Watts

EMH350
- 350 Watts
- 5.00" x 3.00" x 1.43"
- Single & Dual Outputs
- Medical BF Compliant
- Analog & PMBus Options
- **Page 23**

MFA350
- 350 Watts
- 6.80" x 3.20" x 1.50"
- Single Output
- Fan Cover Options
- Remote On/Off
- **Page 24**

SHP350
- 350 Watts
- 7.00" x 3.60" x 2.10"
- Single Output
- Rugged Construction
- Remote On/Off
- **Page 25**

CCH400
- 400 Watts
- 8.43" x 4.02" x 1.69"
- Single Output
- Baseplate-cooled
- -40 °C to +70 °C Operation
- **Page 24**

FCM400
- 400 Watts
- 6.00" x 4.00" x 1.93"
- Single Output
- Low Noise Fan
- 5 V Standby
- **Page 23**

SDL400
- 400 Watts
- 6.00" x 4.00" x 1.50"
- Single & Dual Outputs
- Low Leakage Current Options
- Up to 700 W Peak Power
- **Page 23**

420-800 Watts

MFA420
- 420 Watts
- 6.80" x 3.20" x 1.50"
- Single Output
- High Power Density
- Active Current Share
- **Page 24**

LCL500
- 500 Watts
- 9.84" x 5.00" x 2.08"
- Single Output
- Remote On/Off
- Low Cost
- **Page 24**

CCH600
- 600 Watts
- 8.43" x 4.02" x 1.69"
- Single Output
- Baseplate-cooled
- Industrial & MIL-STD
- **Page 24**

HCP650
- 650 Watts
- 9.80" x 5.00" x 1.61"
- Programmable Voltage
- Programmable Current
- Controls and Alarms
- **Page 28**

MHP650
- 650 Watts
- 9.81" x 4.00" x 2.50"
- Single Output
- Remote On/Off
- Mechanical Options
- **Page 25**

SHP650
- 650 Watts
- 9.18" x 4.00" x 2.50"
- Single Output
- Remote On/Off
- Mechanical Options
- **Page 25**

HDS800
- 800 Watts
- 9.80" x 5.00" x 1.61"
- Programmable Voltage
- Programmable Current
- High Power Density
- **Page 26**

1000-3000 Watts

HCP1000
- 1000 Watts
- 11.14" x 5.00" x 1.61"
- Programmable Voltage
- Programmable Current
- Controls and Alarms
- **Page 28**

MHP1000
- 1000 Watts
- 9.55" x 5.90" x 2.40"
- Single Output
- Remote On/Off
- Screw Terminals
- **Page 25**

SHP1000
- 1000 Watts
- 9.55" x 5.90" x 2.40"
- Single Output
- Remote On/Off
- Screw Terminals
- **Page 25**

GFR1K5
- 1500 Watts
- 11.80" x 4.00" x 1.70"
- Single Output
- I²C Interface
- Current Share and Signals
- **Page 26**

HDS1500
- 1500 Watts
- 12.31" x 5.00" x 2.50"
- Programmable Voltage
- Programmable Current
- Low Noise Fan
- **Page 26**

HPU1K5
- 1500 Watts
- 12.75" x 4.00" x 1.70"
- Single Output
- Current Share
- Status Signals
- **Page 26**

HCP1500/3000
- 1500/3000 Watts
- Single Output
- Programmable Voltage
- Programmable Current
- Controls and Alarms
- **Page 28**

LED Drivers

DLE15
- 15 Watts
- 4.33" x 1.38" x 0.98"
- CC & CV Applications
- Dimming Options
- Waterproof to IP67
- **Page 15**

DLE25/35
- 25/35 Watts
- 4.33" x 2.87" x 1.30"
- CC & CV Applications
- UL8750 Approved
- EN61347 Compliant
- **Page 15**

DLE45/60
- 45/60 Watts
- 6.74" x 1.78" x 1.28"
- CC & CV Applications
- UL8750 Approved
- EN61347 Compliant
- **Page 15**

DLG50
- 50 Watts
- 6.93" x 2.68" 1.54"
- Single Output
- Up to 88% Efficiency
- IP67
- **Page 18**

DLG75
- 75 Watts
- 6.93" x 2.68" 1.54"
- Single Output
- Up to 88% Efficiency
- IP67
- **Page 18**

DLG100
- 100 Watts
- 8.74" x 2.68" 1.54"
- Single Output
- Up to 90% Efficiency
- IP67
- **Page 18**

DLG150
- 150 Watts
- 8.74" x 2.68" 1.54"
- Single Output
- Up to 90% Efficiency
- IP67
- **Page 18**

Configurable

fleXPower
- 400-2500 Watts
- Single & Multi Outputs
- Semi F47 Compliant
- Extra Power at High Line
- Isolated Outputs
- **Page 27**

DIN Rail

DNR05-60
- 5 - 60 Watts
- Up to 89% Efficiency
- Single Output
- ANSI/ISA 12.12.01
- DC Standby Versions
- **Page 28**

DSL120-240
- 120 - 240 Watts
- Up to 93% Efficiency
- Ultra Slim Design
- ANSI/ISA 12.12.01
- Parallel Capability
- **Page 29**

DNR120-480
- 120 - 480 Watts
- Up to 90% Efficiency
- Single Output
- DC OK
- DC Standby Versions
- **Page 29**

DNR120-960
- 120 - 960 Watts
- Up to 93% Efficiency
- Single Output
- Three Phase Input
- Convection-cooled
- **Page 29**

DC–DC Selector Guide

0.25-1 Watt

IK
- ±10% Input
- Unregulated
- SIP & DIP
- Single Output
- 1000 V Isolation
- **Page 34**

IA/IB/IE
- ±10% Input
- Unregulated
- SIP & DIP
- Single & Dual Output
- 1000 V Isolation
- **Page 35/35/36**

IV
- ±10% Input
- Unregulated
- SIP & DIP
- Single & Dual Output
- 3000 V Isolation
- **Page 38**

IC
- ±10% Input
- Unregulated
- Ultra Slim DIP
- Single Output
- 1500 V Isolation
- **Page 35**

IF
- ±10% Input
- Regulated
- SIP & DIP
- Single Output
- 1000 V Isolation
- **Page 36**

IQ
- ±10% Input
- Semi-regulated
- SIP Package
- 1000 V Isolation
- 3000 V Isolation
- **Page 36**

IW
- 2:1 Input
- Regulated
- SIP & DIP
- Single & Dual Output
- 1000 V Isolation
- **Page 38**

SR/TR
- Switching Regulator
- Wide Input Range
- 3 Pin SIP Package
- Up to 97% Efficiency
- Short-circuit Protection
- **Page 34**

2 Watts

IH
- ±10% Input
- Unregulated
- SIP & DIP
- Dual Output
- 1000 V Isolation
- **Page 39**

IL
- ±10% Input
- Unregulated
- SIP
- Single Output
- 1000 V Isolation
- **Page 39**

IM
- 4:1 Input
- Regulated
- SIP
- Single & Dual Output
- 1500 V Isolation
- **Page 39**

IU
- 2:1 Input
- Regulated
- SIP & DIP
- Single & Dual Output
- 1000 V Isolation
- **Page 41**

JAH02
- ±10 Input
- DIP24
- Single & Dual Output
- 1000 V Isolation
- Up to 6 kV Optional
- **Page 43**

JCA02
- 2:1 Input
- 1" x 0.8" DIP24
- Single & Dual Output
- UL & TUV
- 1500 V Isolation
- **Page 46**

3 Watts

IP/IT
- 4:1 Input
- Regulated
- SIP
- Single & Dual Output
- 1500 V Isolation
- **Page 41/42**

IR
- ±10% Output
- Semi-regulated
- SIP Package
- Single & Dual Output
- 1000 V Isolation
- **Page 41**

IS
- ±10% Input
- Regulated
- SIP
- Single Output
- 1000 V Isolation
- **Page 42**

IZ
- 2:1 Input
- Regulated
- SIP
- Single & Dual Output
- 1600 V Isolation
- **Page 42**

JCB03
- 2:1 Input
- DIP24
- Single & Dual Output
- 1500 V Isolation
- Up to 3 kV Optional
- **Page 43**

JCA03
- 2:1 Input
- 1" x 0.8" DIP24
- Single & Dual Output
- UL & TUV
- 1500 V Isolation
- **Page 46**

4-5 Watts

JCD04
- 2:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- 3500 V Optional
- **Page 43**

JTC04
- 4:1 Input
- DIP24
- Single & Dual Output
- 1500 V Isolation
- 3500 V Optional
- **Page 44**

JCA04
- 2:1 Input
- 1" x 0.8" DIP24
- Single & Dual Output
- UL & TUV
- 1500 V Isolation
- **Page 46**

JCD05
- 2:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- 3500 V Optional
- **Page 44**

6 Watts

JCD06
- 2:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- 3500 V Optional
- **Page 44**

JTC06
- 4:1 Input
- DIP24
- Single & Dual Output
- 1500 V Isolation
- 3500 V Optional
- **Page 45**

JCA06
- 2:1 Input
- 1" x 0.8" DIP24
- Single & Dual Output
- UL & TUV
- 1500 V Isolation
- **Page 46**

8 Watts

JCJ08
- 2:1 Input
- 1.25" x 0.80"
- DIP24
- Single & Dual Output
- 1500 V Isolation
- **Page 46**

JTF08
- 4:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 47**

SMD

1 Watt

ISG
- ±5% Input
- Regulated
- Single Output
- 1000 V Isolation
- Industry Standard Pinout
- **Page 37**

ISF
- ±10% Input
- Unregulated
- Single & Dual Output
- 1000 V Isolation
- 3000 V Optional
- **Page 37**

ISJ
- ±10% Input
- Unregulated
- Ultra Slim Package
- Single Output
- 1500 V Isolation
- **Page 37**

1.5 Watts

ISL
- 4:1 Input
- Regulated
- Single & Dual Output
- 1500 V Isolation
- Industry Standard Pinout
- **Page 38**

2 Watts

ISQ
- ±10% Input
- Unregulated
- Single Output
- 1000 V Isolation
- Industry Standard Pinout
- **Page 40**

IST
- ±10% Input
- Unregulated
- Single Output
- 1000 V Isolation
- Industry Standard Pinout
- **Page 40**

ISP
- 2:1 Input
- Regulated
- Single & Dual Output
- 1500 V Isolation
- Industry Standard Pinout
- **Page 40**

⊕ = Medical Version Available

10 Watts

JCA10
- 2:1 Input
- 1" x 0.8" DIP24
- Single & Dual Output
- 1500 V Isolation
- UL & TUV Approved
- **Page 46**

JCJ10
- 2:1 Input
- DIP24
- Single & Dual Output
- 1500 V Isolation
- High Efficiency
- **Page 46**

JCH10
- 2:1 Input
- 2" x 1"
- Single & Dual Output
- 1500 V Isolation
- Industry Standard Package
- **Page 47**

JTF10
- 4:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 47**

JTA10
- 4:1 Input
- 2" x 1"
- Single & Dual Output
- Level 'B' EMI
- UL Approved
- **Page 49**

12 Watts

JTF12
- 4:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 47**

JCG12
- 2:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 48**

15 Watts

JTF15
- 4:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 48**

JCG15
- 2:1 Input
- DIP24
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 48**

JTH15
- 4:1 Input
- 2" x 1"
- Single & Dual Output
- 1500 V Isolation
- Remote On/Off
- **Page 48**

JTA15
- 4:1 Input
- 2" x 1.6"
- Single & Dual Output
- Level 'B' EMI
- UL Approved
- **Page 49**

JCM15
- 2:1 Input
- 1" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 49**

JTK15
- 4:1 Input
- 1" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 50**

JCK15
- 2:1 Input
- 2" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 52**

20 Watts

JTA20
- 4:1 Input
- 2" x 1.6"
- Single & Dual Output
- Level 'B' EMI
- UL Approved
- **Page 49**

JCM20
- 2:1 Input
- 1" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 49**

JTK20
- 4:1 Input
- 1" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 50**

JTM20
- 4:1 Input
- 2" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 50**

JCK20
- 2:1 Input
- 2" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 52**

30-40 Watts

RDC30
- Rail Input Voltage
- 2" x 1"
- Up to 91% Efficiency
- Single & Multi Output
- 1500 V Isolation
- **Page 50**

JTL30
- 4:1 Input
- 2" x 1"
- Single, Dual & Triple
- 1600 V Isolation
- Remote On/Off
- **Page 51**

JCK30
- 2:1 Input
- 2" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 52**

JTL40
- 4:1 Input
- 2" x 2"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 51**

JCK40
- 2:1 Input
- 2" x 1"
- Single & Dual Output
- 1600 V Isolation
- Remote On/Off
- **Page 52**

50-600 Watts

JCK60
- 60 Watts
- 2:1 Input
- 2" x 2"
- Single Output
- 1600 V Isolation
- **Page 52**

RDQ100
- Rail Input Voltage
- Quarter Brick
- Baseplate-cooled
- Up to 92% Efficiency
- Single Output
- **Page 53**

ICH
- 50-150 Watts
- 2:1 & 4:1 Input
- Half Brick
- Single Output
- 1500 V Isolation
- **Page 52/53**

RDQ150
- Rail Input Voltage
- Half Brick
- Single Output
- Baseplate-cooled
- Up to 92% Efficiency
- **Page 53**

QSB
- 75-600 Watts
- 2:1 & 4:1 Input
- Quarter, Half & Full Brick
- Single Output
- 1500 V Isolation
- **Page 53/54**

Medical

3-6 Watts

⊕

JHM03
- Wide Input
- DIP24
- Single & Dual Output
- 60601 Approved
- 5000 VAC Isolation
- **Page 45**

⊕

JHM06
- Wide Input
- DIP24
- Single & Dual Output
- 60601 Approved
- 5000 VAC Isolation
- **Page 45**

10 Watts

⊕

JHM10
- Wide Input
- DIP24
- Single & Dual Output
- 60601 Approved
- 5000 VAC Isolation
- **Page 45**

LED Drivers

5-14 Watts

LDU05/07/08/14
- 7-30 VDC Input
- Constant Current Output
- Up to 1000 mA
- Non Isolated
- Dimming Control
- **Page 51**

20-24 Watts

LDU20/24
- 7-30 VDU Input
- Constant Current Output
- Up to 1000 mA
- Non Isolated
- Dimming Control
- **Page 51**

48-56 Watts

LDU48/56
- 7-60 VDC Input
- Constant Current Output
- Up to 1000 mA
- Non Isolated
- Dimming Control
- **Page 51**

External Selector Guide

8-20 Watts

VEP08
- Efficiency Level V
- 1.06" x 2.83" x 1.67"
- Class II Construction
- Changeable Input Plugs
- Low Cost
- **Page 30**

AEL15
- Efficiency Level V
- 3.58" x 1.50" x 1.42"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Low Profile
- **Page 31**

VEP15
- Efficiency Level V
- 2.95" x 1.20" x 1.81"
- Changeable Input Plugs
- CEC 2008 Compliant
- EISA 2007 Compliant
- **Page 30**

AEL20
- Efficiency Level V
- 3.90" x 1.65" x 1.22"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Optional Class II
- **Page 31**

24-36 Watts

VEP24
- 3.46" x 1.14" x 1.89"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Class II
- Changeable Input Plugs
- **Page 30**

AFM30
- Efficiency Level V
- 4.76" x 1.97" x 1.21"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Optional Class II
- **Page 30**

AEB36
- 4.33" x 1.97" x 0.79"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Low Profile
- CCC Qualified
- **Page 32**

VEP36
- Efficiency Level V
- 4.02" x 1.42" x 2.40"
- Changeable Input Plugs
- CEC 2008 Compliant
- EISA 2007 Compliant
- **Page 30**

40-45 Watts

AEL40
- Efficiency Level V
- 4.65" x 1.36" x 2.05"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Low Profile
- **Page 31**

AEB45
- 4.72" x 2.05" x 1.22"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Low Profile
- CCC Qualified
- **Page 32**

AFM45
- Efficiency Level V
- 4.76" x 1.97" x 1.21"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Optional Class II
- **Page 30**

= Green Product

= Medical Version Available

60-80 Watts

AEL60
- Efficiency Level V
- 4.65" x 1.36" x 2.05"
- CEC 2008 Compliant
- EISA 2007 Compliant
- CCC Qualified
- **Page 31**

AFM60
- Efficiency Level V
- 4.91" x 2.44" x 1.33"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Optional Class II
- **Page 30**

AEB70
- Efficiency Level V
- 5.20" x 2.28" x 1.20"
- CEC 2008 Compliant
- EISA 2007 Compliant
- CCC Qualified
- **Page 32**

AEL80
- Efficiency Level V
- 5.75" x 1.69" x 2.99"
- CEC 2008 Compliant
- EISA 2007 Compliant
- CCC Qualified
- **Page 31**

85-120 Watts

AHM85
- Efficiency Level V
- 5.90" x 2.52" x 1.45"
- IPX1 Smooth Case
- High Efficiency
- Optional Class II
- **Page 33**

AEB100
- High Power Density
- 5.90" x 2.76" x 1.38"
- CEC 2008 Compliant
- EISA 2007 Compliant
- CCC Qualified
- **Page 32**

AHM100
- Efficiency Level V
- 6.49" x 2.52" x 1.45"
- IPX1 Smooth Case
- High Efficiency
- Optional Class II
- **Page 33**

AFM120
- Efficiency Level V
- 6.29" x 2.79" x 1.40"
- Optional IEC320-C6 Inlet
- CEC 2008 Compliant
- EISA 2007 Compliant
- **Page 32**

150-250 Watts

AHM150
- Efficiency Level V
- 7.80" x 3.15" x 1.45"
- Class I & II
- IP21 Rating
- IPX1 Smooth Case
- **Page 33**

AHM180
- Efficiency Level V
- 7.87" x 3.15" x 1.61"
- CEC2008 Compliant
- EISA2007 Compliant
- IPX1 Smooth Case
- **Page 33**

AFE220
- Efficiency Level V
- 7.76" x 3.46" x 1.73"
- CEC 2008 Compliant
- EISA 2007 Compliant
- Optional IEC320-C6 Inlet
- **Page 33**

AHM250
- Efficiency Level V
- 8.80" x 3.45" x 1.46"
- IPX1 Smooth Case
- CEC2008 Compliant
- EISA 2007 Compliant
- **Page 33**

Defense Selector Guide

5-30 Watts

MTC05
- 15-40 VDC Input
- 1.26" x 0.76" x 0.34"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

MTC15
- 15-40 VDC Input
- 1.57" x 1.02" x 0.38"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

MTC30
- 10-50 VDC Input
- 2.28" x 1.81" x 0.50"
- Single & Dual Output
- MIL-STD-461E/F
- Vetronic & Avonic Use
- **Page 55**

35-50 Watts

MTC35
- 10-40 VDC Input
- 2.00" x 1.10" x 0.50"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

MTF50
- MIL-STD Filter
- 15.5-40 VDC Input
- 1.57" x 1.02" x 0.5"
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

MTC50
- 10-40 VDC Input
- 2.28" x 1.45" x 0.50"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

65-75 Watts

MCS65
- 90-264 VAC Input
- 5.50" x 2.75" x 1.65"
- Single Output
- MIL-STD EMC
- MIL-STD Shock & Vibration
- **Page 31**

MTC75
- 10-40 VDC Input
- 2.40" x 2.28" x 0.50"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

100-150 Watts

MTH100
- Hold Up Module
- 1.57" x 1.02" x 0.50"
- 1-0-40 VDC Input
- User Programmable
- 98% Efficiency
- **Page 56**

DSF100
- MIL-STD Filter
- 1.57" x 1.25" x 0.51"
- DEF-STAN 59-41
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 54**

MTC150
- 10-40 VDC Input
- 2.40" x 2.28" x 0.50"
- Single & Dual Output
- MIL-STD-461E/F
- MIL-STD-12754A-D
- **Page 55**

226-400 Watts

DSF226
- MIL-STD Filter
- 2.41" x 1.45" x 0.51"
- MIL-STD 461
- MIL-STD 1275
- MIL-STD 810
- **Page 54**

MCC400
- 1-4 Configurable Outputs
- 7.28" x 6.49" x 1.08"
- 400 W Regulated Output
- MIL-STD-127A/B/C/D
- MIL-STD-461E/F
- **Page 56**

500-600 Watts

FSO461
- MIL-STD Filter
- 2.28" x 2.28" x 0.51"
- 0-100 VDC Input
- MIL-STD 461E/F
- MIL-STD 810
- **Page 54**

DSF500
- MIL-STD Filter
- 2.28" x 2.28" x 0.51"
- DEF-STAN 59-41
- MIL-STD 461E/F
- MIL-STD 1275A-D
- **Page 54**

MCC600
- 1-4 Configurable Outputs
- 7.28" x 6.49" x 1.08"
- 400 W Regulated Output
- MIL-STD-127A/B/C/D
- MIL-STD-461E/F
- **Page 56**

Protecting the Environment

With the recent withdrawal of the external power supplies category by Energy Star, we are no longer permitted to use the Energy Star logo. We have accelerated the rate of 'green' product introductions in the last two years and have created our own logo to highlight these particular products to our customers. This logo will be used for the appropriate products on datasheets and other marketing material.

This page highlights what we mean by 'green' power. The definition includes the no load power limits and average efficiency limits of our 'green' products for both our external power supply range and component power supplies.

More and more customers are asking us about efficiency and energy consumption. In summary we are focused on developing products that are smaller, produce less waste, consume less physical material and avoid hazardous substances.

Our goal is to become the leader in our industry on environmental issues.

- Board level Environmental Committee focused on minimizing our environmental impact
- Environmental concerns and legislation drive demand for energy efficient products
- Member of the Electronic Industry Citizenship Coalition (EICC)
- ISO14001 certified environmental management system
- Member of the FTSE4Good Index

Our printers of this guide are certified by the Forest Stewardship Council ®, this means they are ethically minded and the paper for this Power Supply Selector is from responsible sources.

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Green Products: A definition

External power supplies meet Energy Efficiency Level V requirements as defined below:

No load power limits	
Rated power	**No load consumption**
0 W to < 250 W	0.5 W
> 250 W	No Limit

Active mode power limits, O/P < 6 V	
Rated power	***Average efficiency**
0 W to 1 W	≥ 0.497 x Rated power + 0.067
> 1 W to ≤ 49 W (≤ 51 W)	≥ [0.0750 x Ln(Rated power)] + 0.561
> 49 W (> 51 W)	≥ 0.86

Active mode power limits, O/P ≥ 6 V	
Rated power	***Average efficiency**
0 W to 1 W	≥ 0.5 x Rated power
> 1 W to ≤ 49 W (≤ 51 W)	≥ [0.0626 x Ln(Rated power)] + 0.622
> 49 W (> 51 W)	≥ 0.87

Figures in ( ) are ErP limits

In addition, power supplies with an input power of 100 W and above must have minimum power factor of 0.9 at 115 VAC 60 Hz.

Component power supplies meet the following criteria:

No load power limits	
Rated power	**No load consumption**
0 W to < 250 W	0.5 W
> 250 W	No Limit

Active mode power limits	
Rated power	***Average efficiency**
0 W to 1 W (< 1 W)	0.5 x Rated power
> 1 W to 49 W (≤ 51 W)	≥ [0.09 x Ln(Rated power)] + 0.5
> 49 W (> 51 W)	≥ 0.85

*Average efficiency is measured at 25, 50, 75 & 100% load.

5 to 10 Watts

ECE05-10

- Ultra Compact Size
- Low Profile
- Single Outputs from 3.3 to 48 V
- Encapsulated PCB Mount
- <0.3 W No Load Input Power
- Peak Load Capability
- No External Components Required
- 3 Year Warranty

Dimensions:

ECE05: 1.00 x 1.00 x 0.60" (25.4 x 25.4 x 15.2 mm)
(-P): 0.94 x 0.94 x 0.51" (23.9 x 23.9 x 13.2 mm)
ECE10: 1.50 x 1.00 x 0.60" (38.1 x 25.4 x 15.2 mm)
(-P): 1.40 x 0.93 x 0.67" (35.6 x 23.7 x 17.1 mm)

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
5.0 W	3.3 VDC	1.51 A	1.96 A	ECE05US03
5.0 W	5.0 VDC	1.00 A	1.30 A	ECE05US05
5.0 W	9.0 VDC	0.55 A	0.71 A	ECE05US09
5.0 W	12.0 VDC	0.41 A	0.53 A	ECE05US12
5.0 W	15.0 VDC	0.33 A	0.43 A	ECE05US15
5.0 W	24.0 VDC	0.21 A	0.27 A	ECE05US24
5.0 W	48.0 VDC	0.10 A	0.13 A	ECE05US48
8.6 W	3.3 VDC	2.60 A	3.38 A	ECE10US03
10.0 W	5.0 VDC	2.00 A	2.60 A	ECE10US05
10.0 W	9.0 VDC	1.11 A	1.44 A	ECE10US09
10.0 W	12.0 VDC	0.83 A	1.08 A	ECE10US12
10.0 W	15.0 VDC	0.66 A	0.86 A	ECE10US15
10.0 W	24.0 VDC	0.41 A	0.53 A	ECE10US24
10.0 W	48.0 VDC	0.21 A	0.27 A	ECE10US48

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-P' for open frame version. Contact sales for details.

5 to 10 Watts

ECL05-10

- Compact Size
- Single Outputs from 3.3 to 48 V
- Encapsulated & Open Frame Versions
- PCB & Chassis Mount Versions
- <0.3 W No Load Input Power
- Peak Load Capability
- No External Components Required
- 3 Year Warranty

Dimensions:

ECL05/10:
(-P): 2.00 x 1.00 x 0.90" (50.8 x 25.4 x 22.9 mm)
(-E): 2.06 x 1.07 x 0.91" (52.4 x 27.2 x 23.0 mm)
(-T): 2.56 x 1.00 x 0.85" (65.0 x 25.4 x 21.6 mm)

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
4.3 W	3.3 VDC	1.30 A	1.69 A	ECL05US03
5.0 W	5.0 VDC	1.00 A	1.30 A	ECL05US05
5.0 W	9.0 VDC	0.55 A	0.71 A	ECL05US09
5.0 W	12.0 VDC	0.41 A	0.54 A	ECL05US12
5.0 W	15.0 VDC	0.33 A	0.44 A	ECL05US15
5.0 W	24.0 VDC	0.21 A	0.27 A	ECL05US24
5.0 W	48.0 VDC	0.10 A	0.13 A	ECL05US48
8.6 W	3.3 VDC	2.60 A	3.38 A	ECL10US03
10.0 W	5.0 VDC	2.00 A	2.60 A	ECL10US05
10.0 W	9.0 VDC	1.10 A	1.43 A	ECL10US09
10.0 W	12.0 VDC	0.83 A	1.08 A	ECL10US12
10.0 W	15.0 VDC	0.67 A	0.87 A	ECL10US15
10.0 W	24.0 VDC	0.42 A	0.55 A	ECL10US24
10.0 W	48.0 VDC	0.21 A	0.27 A	ECL10US48

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-P' for open frame version, '-E' for encapsulated or '-T' for chassis mount. Contact sales for details.

15 Watts

ECL15

- Compact Size
- Outputs from 3.3 to 48 V
- Encapsulated & Open Frame Versions
- PCB & Chassis Mount Versions
- <0.3 W No Load Input Power
- Peak Load Capability
- DIN Clip & Screw Terminal Options Available
- 3 Year Warranty

Dimensions:

ECL15/ECL15UD/ECL15UT:
(-P): 2.44 x 1.21 x 0.95" (62.0 x 30.7 x 24.4 mm)
(-E): 2.56 x 1.31 x 0.96" (65.0 x 33.3 x 24.4 mm)
(-S): 3.30 x 1.36 x 1.04" (84.0 x 34.5 x 26.4 mm)
(-T): 3.10 x 1.25 x 0.91" (78.7 x 31.7 x 23.1 mm)

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
10 W	3.3 VDC	3.00 A	3.90 A	ECL15US03
15 W	5.0 VDC	3.00 A	3.90 A	ECL15US05
15 W	9.0 VDC	1.67 A	2.17 A	ECL15US09
15 W	12.0 VDC	1.25 A	1.62 A	ECL15US12
15 W	15.0 VDC	1.00 A	1.30 A	ECL15US15
15 W	24.0 VDC	0.63 A	0.82 A	ECL15US24
15 W	48.0 VDC	0.32 A	0.41 A	ECL15US48

Power		Output Voltage	Output Current	Model
Nom.	Peak			
15 W	19.5 W	±12.0 VDC	±0.650 A	ECL15UD01
15 W	19.5 W	±15.0 VDC	±0.500 A	ECL15UD02
15 W	19.5 W	5.0/12.0 VDC	1.5/0.625 A	ECL15UD03
15 W	19.5 W	5/12/-12 VDC	2.0/0.2/0.2 A	ECL15UT02
15 W	19.5 W	5/15/-15 VDC	2/0.15/0.15 A	ECL15UT03

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-P' for open frame version, '-E' for encapsulated, '-S' for screw terminal '-T' for chassis mount. Contact sales for details.

15 Watts

EML15

- Compact Size
- Medical Approvals - 2 x MOPP
- Single Outputs from 3.3 to 48 V
- PCB & Chassis Mount Versions
- Encapsulated & Open Frame Versions
- <0.3 W No Load Input Power
- Peak Load Capability
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
10 W	3.3 VDC	3.00 A	3.90 A	EML15US03
15 W	5.0 VDC	3.00 A	3.90 A	EML15US05
15 W	9.0 VDC	1.67 A	2.17 A	EML15US09
15 W	12.0 VDC	1.25 A	1.62 A	EML15US12
15 W	15.0 VDC	1.00 A	1.30 A	EML15US15
15 W	24.0 VDC	0.63 A	0.82 A	EML15US24
15 W	36.0 VDC	0.42 A	0.54 A	EML15US36
15 W	48.0 VDC	0.32 A	0.41 A	EML15US48

Dimensions:

EML15
(-P): 2.44 x 1.21 x 0.95" (62.0 x 30.7 x 24.1 mm)
(-E): 2.56 x 1.31 x 0.96" (65.0 x 33.3 x 24.4 mm)
(-T): 3.10 x 1.25 x 0.91" (78.7 x 31.7 x 23.1 mm)
(-S):3.30 x 1.36 x 1.04" (84.0. x 34.5 x 26.4 mm)

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-P' for open frame version. Add suffix '-E' for encapsulated. Add suffix '-S' for screw terminal. Add suffix '-T' for chassis mount. Add suffix '-SD' for screw terminal with optional DIN clip.

25 to 30 Watts

ECL25-30

- Compact Size
- Outputs from 3.3 to 48 V
- Encapsulated & Open Frame Versions
- PCB & Chassis Mount Versions
- <0.3 W No Load Input Power
- Peak Load Capability
- DIN Clip & Screw Terminal Options Available
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
20 W	3.3 VDC	6.00 A	7.80 A	ECL25US03
25 W	5.0 VDC	5.00 A	6.50 A	ECL25US05
25 W	9.0 VDC	2.80 A	3.64 A	ECL25US09
25 W	12.0 VDC	2.10 A	2.73 A	ECL25US12
25 W	15.0 VDC	1.67 A	2.17 A	ECL25US15
25 W	24.0 VDC	1.04 A	1.35 A	ECL25US24
25 W	48.0 VDC	0.52 A	0.68 A	ECL25US48

Power		Output Voltage	Output Current	Model
Nom.	Peak			
30 W	39 W	±12.0 VDC	±1.30 A	ECL30UD01
30 W	39 W	±15.0 VDC	±1.00 A	ECL30UD02
30 W	39 W	5.0/12.0 VDC	3.0/1.3 A	ECL30UD03
30 W	39 W	5/12/-12 VDC	3/0.63/0.63 A	ECL30UT02
30 W	39 W	5/15/-15 VDC	3.0/0.5/0.5 A	ECL30UT03

Dimensions:

ECL25/ECL30UD/ECL30UT:
(-P): 2.96 x 1.36 x 1.05" (75.2 x 34.6 x 26.7 mm)
(-E): 3.10 x 1.50 x 1.10" (78.7 x 38.1 x 27.9 mm)
(-S): 3.78 x 1.57 x 1.12" (96.0 x 40.0 x 28.5 mm)
(-T): 3.46 x 1.36 x 1.00" (87.9 x 34.6 x 25.4 mm)

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-P' for open frame version, '-E' for encapsulated, '-S' for screw terminal or '-T' for chassis mount. Contact sales for details.

20 to 40 Watts

ECE20-40

- Ultra Compact Size
- Single Outputs from 3.3 to 48 V
- Encapsulated
- PCB & Chassis Mount Versions
- <0.3 W No Load Input Power
- Peak Load Capability
- DIN Clip & Screw Terminal Option Available (40W)
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
15.0 W	3.3 VDC	4.55 A	5.85 A	ECE20US03
20.0 W	5.0 VDC	4.00 A	5.20 A	ECE20US05
20.0 W	9.0 VDC	2.22 A	2.89 A	ECE20US09
20.0 W	12.0 VDC	1.67 A	2.17 A	ECE20US12
20.0 W	15.0 VDC	1.33 A	1.73 A	ECE20US15
20.0 W	24.0 VDC	0.83 A	1.08 A	ECE20US24
20.0 W	48.0 VDC	0.42 A	0.55 A	ECE20US48
33.0 W	3.3 VDC	10.00 A	13.00 A	ECE40US03
40.0 W	5.0 VDC	8.00 A	10.40 A	ECE40US05
40.0 W	9.0 VDC	4.44 A	5.77 A	ECE40US09
40.0 W	12.0 VDC	3.33 A	4.33 A	ECE40US12
40.0 W	15.0 VDC	2.67 A	3.47 A	ECE40US15
40.0 W	24.0 VDC	1.67 A	2.17 A	ECE40US24
40.0 W	48.0 VDC	0.83 A	1.08 A	ECE40US48

Dimensions:

ECE20: 2.06 x 1.07 x 0.91" (52.4 x 27.2 x 23.0 mm)
ECE40: 3.10 x 1.50 x 1.10" (78.7 x 38.1 x 27.9 mm)
(-S): 3.78 x 1.57 x 1.12" (96.0 x 40.0 x 28.5 mm

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%. Average power not to exceed nominal power. Add suffix '-S' for screw terminal or '-SD' for screw terminal with optional DIN clip (ECE40 only). Contact sales for details.

40 Watts

ECP40

- Low Profile Design
- Ultra Compact Size from 3"x 2"x 0.9"
- IT & Medical Approvals
- Outputs from 5 to 48 V
- Single, Dual and Triple Output
- <0.3 W No Load Input Power
- Peak Load Capability
- 3 Year Warranty

Dimensions:

ECP40US: 3.00 x 2.00 x 0.91" (76.2 x 50.8 x 23.0 mm)
UD/UT: 3.50 x 2.00 x 1.01" (88.9 x 50.8 x 26.0 mm)

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%.
Average power not to exceed nominal power.

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
30 W	5.0 VDC	6.00 A	7.80 A	ECP40US05
40 W	12.0 VDC	3.34 A	4.34 A	ECP40US12
40 W	15.0 VDC	2.67 A	3.47 A	ECP40US15
40 W	18.0 VDC	2.22 A	2.89 A	ECP40US18
40 W	24.0 VDC	1.67 A	2.17 A	ECP40US24
40 W	30.0 VDC	1.34 A	1.74 A	ECP40US30
40 W	48.0 VDC	0.84 A	1.09 A	ECP40US48

Power		Output Voltage	Output Current	Model
Nom.	Peak			
40 W	52 W	5.0/12.0 VDC	5.0/2.0 A	ECP40UD01
40 W	52 W	5.0/15.0 VDC	5.0/1.5 A	ECP40UD02
40 W	52 W	5.0/24.0 VDC	5.0/1.0 A	ECP40UD03
40 W	52 W	5/12/-12 VDC	5/2.0/0.5 A	ECP40UT01
40 W	52 W	5/15/-15 VDC	5/1.5/0.5 A	ECP40UT02
40 W	52 W	5/24/12 VDC	5/1.0/0.5 A	ECP40UT03
40 W	52 W	5/24/-12 VDC	5/1.0/0.5 A	ECP40UT04

60 Watts

ECP60

- Low Profile Design
- Compact Size, 4"x 2"
- IT & Medical Approvals
- Outputs from 5 to 24 V
- Single, Dual and Triple Output
- <0.5 W No Load Input Power
- Peak Load Capability
- 3 Year Warranty

Dimensions:

ECP60: 4.00 x 2.00 x 1.20" (101.6 x 50.8 x 30.4 mm)

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
55 W	5.0 VDC	11.0 A	14.30 A	ECP60US05
60 W	5.0/12.0 VDC	7.0/3.0 A	10.40/3.90 A	ECP60UD01
60 W	5.0/15.0 VDC	7.0/2.0 A	10.40/2.60 A	ECP60UD02
60 W	5.0/24.0 VDC	7.0/1.5 A	10.40/1.95 A	ECP60UD03

Power		Output Voltage	Output Current	Model
Nom.	Peak			
60 W	78 W	5/12/-12 VDC	7/3/0.30 A	ECP60UT01
60 W	78 W	5/15/-15 VDC	7/2/0.30 A	ECP60UT02
60 W	78 W	5/24/12 VDC	7/1.5/0.30 A	ECP60UT03
60 W	78 W	5/24/-12 VDC	7/1.5/0.30 A	ECP60UT04

Notes:
Peak load lasting <30 s, with a maximum duty cycle of 10%.
Average power not to exceed nominal power.

25 to 60 Watts

ECS25-60

- Ultra Compact 2" x 3" x 0.95" Package
- IT & Medical Safety Approvals
- <0.3 W No Load Input Power
- Single Outputs from 5 to 48 V
- Class I & Class II Installations
- -20 °C to +70 °C Operation
- Covered Version Available
- 3 Year Warranty

Dimensions:

ECS25/ECS45 12-48V:
3.00 x 2.00 x 0.95" (76.2 x 50.8 x 24.2 mm)
ECS45 5V/ECS60:
3.00 x 2.00 x 1.05" (76.2 x 50.8 x 26.7 mm)

Power	Output Voltage	Output Current	Model
25 W	12.0 VDC	2.08 A	ECS25US12
25 W	15.0 VDC	1.67 A	ECS25US15
25 W	24.0 VDC	1.04 A	ECS25US24
25 W	48.0 VDC	0.52 A	ECS25US48
30 W	5.0 VDC	6.00 A	ECS45US05
45 W	12.0 VDC	3.75 A	ECS45US12
45 W	15.0 VDC	3.00 A	ECS45US15
45 W	24.0 VDC	1.90 A	ECS45US24
45 W	48.0 VDC	0.95 A	ECS45US48
40 W	5.0 VDC	8.00 A	ECS60US05
60 W	12.0 VDC	5.00 A	ECS60US12
60 W	15.0 VDC	4.00 A	ECS60US15
60 W	24.0 VDC	2.50 A	ECS60US24
60 W	48.0 VDC	1.25 A	ECS60US48

Notes:
For covered version, add suffix '-C'. Derate output power by 20% with cover.

15 to 60 Watts

DLE15-60

- AC Input LED Drivers
- CC & CV Applications
- Power Factor Corrected
- Dimming Options
- Waterproof to IP67
- UL8750 Approved
- EN61347 Compliant
- 3 Year Warranty

Dimensions:

DLE15:
4.33 x 1.38 x 0.98" (110.0 x 35.0 x 25.0 mm)
DLE25/DLE35:
4.33 x 2.87 x 1.30" (110.0 x 73.5 x 33.0 mm)
DLE45/DLE60:
6.74 x 1.78 x 1.28" (171.1 x 45.3 x 32.5 mm)

Power	Type	Output Voltage	Output Current	Model
15.0 W	CC	8-12 VDC	1250 mA	DLE15PS1250-A
15.0 W	CC	14-22 VDC	700 mA	DLE15PS700-A
15.0 W	CC	24-30 VDC	500 mA	DLE15PS500-A
15.0 W	CC	26-42 VDC	300 mA	DLE15PS350-A
15.0 W	CV	12 VDC	1250 mA	DLE15PS12-V
15.0 W	CV	24 VDC	630 mA	DLE15PS24-V

Power	Type	Output Voltage	Output Current	Model
25.0 W	CV + CC	9-12 VDC	2100 mA	DLE25PS12
25.0 W	CV + CC	12-24 VDC	1050 mA	DLE25PS24
25.0 W	CV + CC	24-36 VDC	700 mA	DLE25PS36
25.0 W	CV + CC	36-48 VDC	500 mA	DLE25PS48
20.0 W	CV + CC	48-57 VDC	350 mA	DLE25PS57
25.0 W	CC	9-12 VDC	2100 mA	DLE25PS2100-AD
25.0 W	CC	12-24 VDC	1050 mA	DLE25PS1050-AD
25.0 W	CC	24-36 VDC	700 mA	DLE25PS700-AD
25.0 W	CC	36-48 VDC	500 mA	DLE25PS500-AD
20.0 W	CC	48-57 VDC	350 mA	DLE25PS350-AD

Notes:
CC = constant current
CV = constant voltage
CV + CC = constant voltage until current rating is reached, then constant current.
Suffix '-AD' = dimming version (PWM, resistance & voltage)

Power	Type	Output Voltage	Output Current	Model
30.0 W	CV + CC	9-12 VDC	2500 mA	DLE35PS12
35.0 W	CV + CC	12-24 VDC	1400 mA	DLE35PS24
35.0 W	CV + CC	24-36 VDC	1000 mA	DLE35PS36
35.0 W	CV + CC	33-48 VDC	700 mA	DLE35PS48
28.5 W	CV + CC	48-57 VDC	500 mA	DLE35PS57
30.0 W	CC	9-12 VDC	2500 mA	DLE35PS2500-AD
35.0 W	CC	12-24 VDC	1400 mA	DLE35PS1400-AD
35.0 W	CC	24-36 VDC	1000 mA	DLE35PS1000-AD
35.0 W	CC	33-48 VDC	700 mA	DLE35PS700-AD
28.5 W	CC	48-57 VDC	500 mA	DLE35PS500-AD

Power	Type	Output Voltage	Output Current	Model
45.0 W	CV + CC	9-12 VDC	3750 mA	DLE45PS12
45.0 W	CV + CC	16-24 VDC	1870 mA	DLE45PS24
45.0 W	CV + CC	24-36 VDC	1250 mA	DLE45PS36
45.0 W	CV + CC	34-48 VDC	1000 mA	DLE45PS48
40.0 W	CV + CC	40-57 VDC	700 mA	DLE45PS57
45.0 W	CC	9-12 VDC	3750 mA	DLE45PS3750-AD
45.0 W	CC	16-24 VDC	1870 mA	DLE45PS1870-AD
45.0 W	CC	24-36 VDC	1250 mA	DLE45PS1250-AD
45.0 W	CC	34-48 VDC	1000 mA	DLE45PS1000-AD
40.0 W	CC	40-57 VDC	700 mA	DLE45PS700-AD

Power	Type	Output Voltage	Output Current	Model
50.0 W	CV + CC	9-12 VDC	4200 mA	DLE60PS12
60.0 W	CV + CC	16-24 VDC	2500 mA	DLE60PS24
60.0 W	CV + CC	24-36 VDC	1650 mA	DLE60PS36
60.0 W	CV + CC	34-48 VDC	1250 mA	DLE60PS48
60.0 W	CV + CC	40-57 VDC	1050 mA	DLE60PS57
50.0 W	CC	9-12 VDC	4200 mA	DLE60PS4200-AD
60.0 W	CC	16-24 VDC	2500 mA	DLE60PS2500-AD
60.0 W	CC	24-36 VDC	1650 mA	DLE60PS1650-AD
60.0 W	CC	34-48 VDC	1250 mA	DLE60PS1250-AD
60.0 W	CC	40-57 VDC	1050 mA	DLE60PS1050-AD

100 Watts

ECC100

- -40 °C to +75 °C Operation
- 100 W Baseplate-cooled
- High Efficiency Resonant Topology
- Screw Terminals Available
- 5 V/0.5 A Standby Output
- Remote On/Off
- Power OK Signal
- 3 Year Warranty

Dimensions:

ECC100:
5.00 x 4.10 x 1.55" (127.0 x 104.1 x 39.4 mm)

Power	Output Voltage	Output Current	Model
100 W	12.0 VDC	8.1 A	ECC100US12
100 W	15.0 VDC	6.5 A	ECC100US15
100 W	24.0 VDC	4.1 A	ECC100US24
100 W	28.0 VDC	3.5 A	ECC100US28
100 W	48.0 VDC	2.0 A	ECC100US48

Notes:
For optional installation class 4 surge filter, add suffix '-F'.
See longform datasheet for further details.

40 to 100 Watts

ECM40-100

- Compact Size
- IT & Medical Approvals
- Convection & Forced-cooled Ratings
- Class I and II Construction
- Covered Versions Available
- 48 VDC Input Version Available (DCM Series)
- PoE Isolation Version Available (POE Series)
- 3 Year Warranty

Dimensions:

ECM40/ECM60:
4.00 x 2.00 x 1.20″ (101.6 x 50.8 x 30.5 mm)
ECM100:
4.50 x 2.50 x 1.20″ (114.3 x 63.5 x 30.5 mm)

Power	Output Voltage	Output Current	Model
40 W	5.0 VDC	8.0 A	ECM40US05
40 W	7.0 VDC	5.7 A	ECM40US07
40 W	9.0 VDC	4.4 A	ECM40US09
40 W	12.0 VDC	3.5 A	ECM40US12
40 W	15.0 VDC	2.7 A	ECM40US15
40 W	18.0 VDC	2.2 A	ECM40US18
40 W	24.0 VDC	1.7 A	ECM40US24
40 W	33.0 VDC	1.2 A	ECM40US33
40 W	48.0 VDC	0.9 A	ECM40US48
40 W	5.0./12.0 VDC	6.0/2.0 A	ECM40UD21
40 W	5.0/15.0 VDC	6.0/1.5 A	ECM40UD22
40 W	5/12/-12 VDC	6/2/0.5 A	ECM40UT31
40 W	5/24/-12 VDC	6/1/0.5 A	ECM40UT32
40 W	5/15/-15 VDC	6/1.5/0.5 A	ECM40UT33
40 W	3.3/5/12 VDC	6/1.5/0.5 A	ECM40UT34
40 W	5/3.3/12 VDC	6/1.5/0.5 A	ECM40UT35

Power	Output Voltage	Output Current	Model
60 W	5.0 VDC	12.00 A	ECM60US05
60 W	7.0 VDC	8.60 A	ECM60US07
60 W	9.0 VDC	6.70 A	ECM60US09
60 W	12.0 VDC	5.00 A	ECM60US12
60 W	15.0 VDC	4.00 A	ECM60US15
60 W	18.0 VDC	3.30 A	ECM60US18
60 W	20.0 VDC	3.00 A	ECM60US20
60 W	24.0 VDC	2.50 A	ECM60US24
60 W	28.0 VDC	2.14 A	ECM60US28
60 W	33.0 VDC	1.80 A	ECM60US33
60 W	48.0 VDC	1.25 A	ECM60US48
60 W	5.0/12.0 VDC	8.0/3.0 A	ECM60UD21
60 W	5.0/15.0 VDC	8.0/2.5 A	ECM60UD22
60 W	5/12/-12 VDC	8.0/3.0/0.5 A	ECM60UT31
60 W	5/24/-12 VDC	8.0/1.5/0.5 A	ECM60UT32
60 W	5/15/-15 VDC	8.0/2.5/0.5A	ECM60UT33
60 W	3.3/5/12 VDC	8.0/1.5/0.5 A	ECM60UT34
60 W	5/3.3/12 VDC	8.0/1.5/0.5 A	ECM60UT35

Power		Output Voltage	Output Current	Model
Conv.	Forced			
80 W	100 W	5/12 VDC	12/3 A	ECM100UD21
80 W	100 W	5/15 VDC	12/3 A	ECM100UD22
75 W	100 W	5/12/-12 VDC	10/3/0.8 A	ECM100UT31
80 W	100 W	5/24/-12 VDC	10/2/0.8 A	ECM100UT32
80 W	100 W	5/15/-15 VDC	10/3/0.8 A	ECM100UT33
65 W	100 W	3.3/5/12 VDC	10/5/0.8 A	ECM100UT34
70 W	100 W	5/3.3/12 VDC	10/5/0.8 A	ECM100UT35
80 W	100 W	5/12/-5 VDC	10/3/0.8 A	ECM100UT36
70 W	100 W	5/15/-5 VDC	10/3/0.8 A	ECM100UT37
65 W	100 W	5/3.3/12/-12	10/5/0.8/0.5	ECM100UQ41
60 W	100 W	3.3/5/12/-12	10/5/0.8/0.5	ECM100UQ42
80 W	100 W	5/24/12/-12	10/2/0.8/0.5	ECM100UQ43
80 W	100 W	5/24/15/-15	10/2/0.8/0.5	ECM100UQ44
80 W	100 W	5/12/-12/-5	10/3/0.8/0.5	ECM100UQ45
80 W	100 W	5/15/-15/-5	10/3/0.8/0.5	ECM100UQ46

Notes:
5 CFM required to meet forced cooled ratings (ECM100).
For covered versions, add suffix '-C' to part number. For class I operation only. Contact sales for DCM & POE series information.

50 to 100 Watts

VCS50-100

- Chassis Mount Industrial Supplies
- Low Cost
- >500 kHrs MTBF
- -25 °C to +70 °C Convection-cooled
- Class B Conducted & Radiated Emissions
- Output Voltages from 5 V to 48 V
- <0.5 W No Load Input Power
- 2 Year Warranty

Dimensions:

VCS50: 4.35 x 3.07 x 1.38″ (110.5 x 78.0 x 35.0 mm)
VCS70: 5.12 x 3.88 x 1.61″ (130.0 x 98.5 x 41.0 mm)
VCS100: 6.26 x 3.87 x 1.65″ (159.0 x 98.2 x 42.0 mm)

Power	Output Voltage	Output Current	Model
40 W	5.0 VDC	8.00 A	VCS50US05
50 W	12.0 VDC	4.20 A	VCS50US12
50 W	15.0 VDC	3.30 A	VCS50US15
50 W	24.0 VDC	2.10 A	VCS50US24
50 W	48.0 VDC	1.05 A	VCS50US48
50 W	5.0 VDC	10.0 A	VCS70US05
70 W	12.0 VDC	5.83 A	VCS70US12
70 W	15.0 VDC	4.67 A	VCS70US15
70 W	24.0 VDC	2.92 A	VCS70US24
70 W	48.0 VDC	1.46 A	VCS70US48
70 W	5.0 VDC	14.0 A	VCS100US05
100 W	12.0 VDC	8.33 A	VCS100US12
100 W	15.0 VDC	6.67 A	VCS100US15
100 W	24.0 VDC	4.17 A	VCS100US24
100 W	48.0 VDC	2.08 A	VCS100US48

65 to 100 Watts

ECS65-100

- IT & Medical Safety Approvals
- 65/80 W Convection-cooled Ratings
- Class I & Class II Construction
- Covered Versions
- Industry Standard 2" x 4" Package
- <0.5 W No Load Input Power
- Low Leakage Current
- 3 Year Warranty

Dimensions:

ECS65: 4.00 x 2.00 x 1.05" (101.6 x 50.8 x 26.7 mm)
ECS100: 4.00 x 2.00 x 1.25" (101.6 x 50.8 x 31.8 mm)
(-B): 4.50 x 2.00 x 1.25" (114.3 x 50.8 x 31.8 mm)

Power	Output Voltage	Output Current	Model
65 W	12.0 VDC	5.40 A	ECS65US12
65 W	15.0 VDC	4.30 A	ECS65US15
65 W	18.5 VDC	3.40 A	ECS65US18
65 W	24.0 VDC	2.70 A	ECS65US24
65 W	28.0 VDC	2.30 A	ECS65US28
65 W	48.0 VDC	1.40 A	ECS65US48
100 W	12.0 VDC	8.30 A	ECS100US12
100 W	15.0 VDC	6.70 A	ECS100US15
100 W	18.0 VDC	5.50 A	ECS100US18
100 W	24.0 VDC	4.20 A	ECS100US24
100 W	28.0 VDC	3.60 A	ECS100US28
100 W	48.0 VDC	2.10 A	ECS100US48

Notes:
ECS100 - 80 W convection-cooled 10 CFM required for full power.
For level B radiated emissions compliance, add suffix '-B'.
For covered versions, add suffix '-C'. Class I installations only.

125 Watts

CLC125

- 125 W Forced-cooled Rating
- Low Profile 1.25"
- 12 V/0.5 A Fan Supply
- Industry Standard 2"x 4" Package Size
- Optional ORing Diode (3"x 5")
- <0.5 W No Load Input Power
- Low Cost
- 3 Year Warranty

Dimensions:

CLC125: 4.00 x 2.00 x 1.25" (101.6 x 50.8 x 31.8 mm)

Power	Output Voltage	Output Current	Model
125 W	12.0 VDC	10.40 A	CLC125US12
125 W	24.0 VDC	5.20 A	CLC125US24
125 W	48.0 VDC	2.60 A	CLC125US48

Notes:
For 3" x 5" PCB version, add suffix '-3x5'.
For integral ORing diode, add suffix 'D-3x5'.
10 CFM required for full power operation.

130 Watts

ECS130

- IT & Medical Safety Approvals
- 100 W Convection-cooled Rating
- 130 W Forced-cooled Rating
- Class I & Class II Construction
- Industry Standard 2" x 4" Package
- <0.5 W No Load Input Power
- Low Leakage Current
- 3 Year Warranty

Dimensions:

ECS130: 4.00 x 2.00 x 1.25" (101.6 x 50.8 x 31.8 mm)

Power	Output Voltage	Output Current		Model
		Conv.	Forced	
130 W	12.0 VDC	8.33 A	10.80 A	ECS130US12
130 W	15.0 VDC	6.67 A	8.60 A	ECS130US15
130 W	18.0 VDC	5.55 A	7.20 A	ECS130US18
130 W	24.0 VDC	4.16 A	5.40 A	ECS130US24
130 W	28.0 VDC	3.57 A	4.65 A	ECS130US28
130 W	48.0 VDC	2.08 A	2.70 A	ECS130US48

Notes:
10 CFM required for full power.
For covered version, add suffix '-C', (Class I installations only).

150 Watts

ECP150

- 100/150 W Convection/Forced-cooled
- IT & Medical Approvals
- 2" x 4" Foot Print
- Single Outputs from 12 V to 48 V
- Active PFC
- 12 V/0.5 A Fan Supply
- <0.5 W No Load Input Power
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Conv.	Forced	
150 W	12.0 VDC	8.33 A	12.50 A	ECP150PS12
150 W	15.0 VDC	6.67 A	10.00 A	ECP150PS15
150 W	24.0 VDC	4.17 A	6.25 A	ECP150PS24
150 W	28.0 VDC	3.50 A	5.40 A	ECP150PS28
150 W	48.0 VDC	2.08 A	3.10 A	ECP150PS48

Dimensions:

ECP150:
4.00 x 2.00 x 1.26" (101.6 x 44.45 x 32.0 mm)

Notes:
Convection-cooled rating 100 W. Requires 15 CFM for full power.

50 to 150 Watts

DLG50-150

- AC Input LED Driver
- 90-305 VAC Input Voltage
- Constant Voltage & Current Operation
- Water Proof to IP67
- UL8750 Approved
- EN61347 Compliant
- IEC60950-1 (Constant Voltage DLG100 & 150)
- 3 Year Warranty

Dimensions:

DLG50/75:
6.93 x 2.68 x 1.54" (176.0 x 68.0 x 39.0 mm)
DLG50/70/100 - A:
7.79 x 2.24 x 1.45" (198.0 x 57.0 x 37.0 mm)
DLG100/150:
8.74 x 2.68 x 1.54" (222.0 x 68.0 x 39.0 mm)
DLG150 - A:
8.89 x 2.68 x 1.54" (226.0 x 68.0 x 39.0 mm)

Power	Output Voltage	Output Current	Model
50 W	12.0 VDC	4.20 A	DLG50PS12
50 W	24.0 VDC	2.10 A	DLG50PS24
50 W	36.0 VDC	1.40 A	DLG50PS36
50 W	48.0 VDC	1.05 A	DLG50PS48
59 W	12.0 VDC	4.90 A	DLG75PS12
75 W	24.0 VDC	3.15 A	DLG75PS24
74 W	30.0 VDC	2.45 A	DLG75PS30
75 W	36.0 VDC	2.10 A	DLG75PS36
67 W	48.0 VDC	1.40 A	DLG75PS48
75 W	54.0 VDC	1.40 A	DLG75PS54
100 W	12.0 VDC	8.30 A	DLG100PS12
100 W	15.0 VDC	6.60 A	DLG100PS15*
100 W	24.0 VDC	4.20 A	DLG100PS24
100 W	30.0 VDC	3.30 A	DLG100PS30
100 W	36.0 VDC	2.80 A	DLG100PS36
100 W	48.0 VDC	2.10 A	DLG100PS48
100 W	57.0 VDC	1.75 A	DLG100PS57*
132 W	12.0 VDC	11.00 A	DLG150PS12
150 W	15.0 VDC	10.00 A	DLG150PS15*
150 W	24.0 VDC	6.30 A	DLG150PS24
150 W	30.0 VDC	5.00 A	DLG150PS30
150 W	36.0 VDC	4.20 A	DLG150PS36
150 W	48.0 VDC	3.20 A	DLG150PS48
150 W	54.0 VDC	2.80 A	DLG150PS54*

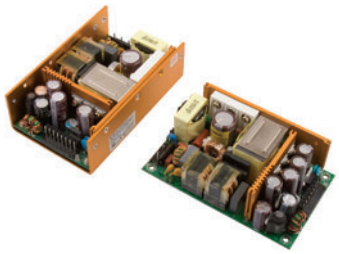
Power	Output Voltage	Output Current	Model
70 W	50 - 100 VDC	0.70 A	DLG70PS700-A
100 W	100 - 142 VDC	0.70 A	DLG100PS700-A
100 W	50 - 71 VDC	1.40 A	DLG100PS1400-A
150 W	200 - 425 VDC	0.35 A	DLG150PS350-A
150 W	60 - 210 VDC	0.70 A	DLG150PS700-A
150 W	60 - 142 VDC	1.05 A	DLG150PS1050-A
150 W	60 - 107 VDC	1.40 A	DLG150PS1400-A

Notes:
DLG 50/75 use a topology, which results in increased levels of mains frequency ripple. Models marked '*', do not have UL8750 approval. Model numbers with suffix '-A' are constant current (CC) operation only, all other models are constant voltage + constant current (CV + CC).

150 Watts

SDU150

- 150 W Convection-cooled
- Medical Approvals
- 3.2"x 5" 'U' Channel Version
- 3" x 5" Open-frame Version
- Fits 1U Applications
- 12 V & 24 V Outputs
- Class B Conducted & Radiated Emissions
- 3 Year Warranty



Dimensions:

SDU150B:
5.00 x 3.21 x 1.66" (127.0 x 81.6 x 42.2 mm)
SDU150:
5.00 x 3.00 x 1.44" (127.0 x 76.2 x 36.6 mm)

Power	Output Voltage	Output Current	Model
150 W	12.0 VDC	12.50 A	SDU150PS12B
150 W	24.0 VDC	6.25 A	SDU150PS24B

Notes:
For open frame version remove suffix 'B'. For optional 2 pin Molex input, add suffix '-D'.

75 to 155 Watts

BCS75-155

- DC Standby System
- Suitable For VRLA Batteries
- Battery Charging Output
- Optional 5 V/3 A Supply
- Low Battery Disconnect
- AC OK and Battery Low Alarms
- Battery Overload & Reverse Polarity Protection
- 3 Year Warranty

Dimensions:

BCS75/100/BCS75-A/BCS100-A:
4.80 x 3.74 x 1.33" (123.0 x 95.0 x 34.0 mm)
BCS75-C/BCS75-CA/BCS100-C/BCS100-CA:
5.09 x 3.83 x 1.47" (129.5 x 97.5 x 37.5 mm)
BCS155: 7.05 x 3.86 x 2.20" (179.0 x 98.0 x 56.0 mm)

Power	Output Voltage	Output Current	Model
75 W	13.8/13.8 VDC	5.50/1.95 A	BCS75US13-C
75 W	27.6/27.6 VDC	2.75/1.10 A	BCS75US27-C
75 W	13.8/13.8 VDC	4.40/1.95 A	BCS75US13-CA
75 W	27.6/27.6 VDC	2.20/1.10 A	BCS75US27-CA
100 W	13.8/13.8 VDC	7.30/2.80 A	BCS100US13-C
100 W	27.6/27.6 VDC	3.65/1.70 A	BCS100US27-C
100 W	13.8/13.8 VDC	6.20/2.80 A	BCS100US13-CA
100 W	27.6/27.6 VDC	3.10/1.70 A	BCS100US27-CA
155 W	13.8/13.8 VDC	11.2/3.88 A	BCS155PS13-C
155 W	27.6/27.6 VDC	5.6/2.10 A	BCS155PS27-C
155 W	13.8/13.8 VDC	10.1/3.88 A	BCS155PS13-CA
155 W	27.6/27.6 VDC	5.1/2.10 A	BCS155PS27-CA

Notes:
Delete C from model numbers for optional open frame version.
BCS75 & 100 W convection-cooled:150 W has integral fan.
Models with suffix 'A' include optional 5 V/3 A output.

175 Watts

RCL175

- Up to 120 W Convection-cooled
- 175 W Forced-cooled
- 200 W Peak Rating
- IT and Medical Safety Approvals
- Class I & Class II Installations
- Single, Dual, Triple and Quad Outputs
- 12 V/0.35 A Fan Supply
- 3 Year Warranty

Dimensions:

RCL175: 5.50 x 3.70 x 1.28" (139.7 x 93.9 x 32.4 mm)
(-U): 5.71 x 3.90 x 1.50" (145.0 x 99.0 x 38.1 mm)
(-C): 5.71 x 3.90 x 1.59" (145.0 x 99.0 x 40.4 mm)
(-F): 5.71 x 3.90 x 2.14" (145.0 x 99.0 x 54.4 mm)

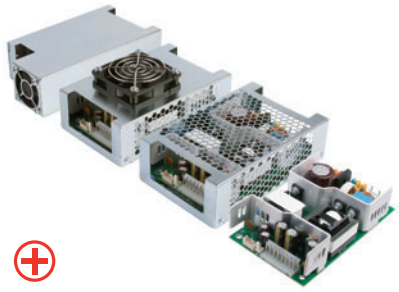
Power		Output Voltage	Output Current	Model
Conv.	Forced			
120 W	175 W	12.0 VDC	14.5 A	RCL175PS12
120 W	175 W	15.0 VDC	11.6 A	RCL175PS15
120 W	175 W	24.0 VDC	7.2 A	RCL175PS24
120 W	175 W	28.0 VDC	6.2 A	RCL175PS28
120 W	175 W	48.0 VDC	3.6 A	RCL175PS48
110 W	175 W	5.0/12.0 VDC	15.0/8.3 A	RCL175PD22
110 W	175 W	5.0/12.0/F12 VDC	15/6.3/2 A	RCL175PT31
110 W	175 W	5.0/15.0/F15 VDC	15/4.6/2 A	RCL175PT32
90 W	175 W	5/3.3/F15/F15 VDC	15/15/2/2 A	RCL175PQ43
90 W	175 W	5/12/F5/F12 VDC	15/5.5/2/2 A	RCL175PQ44
90 W	175 W	5/15/F5/F15 VDC	15/4/2/2 A	RCL175PQ45
90 W	175 W	5/24/F12/F12 VDC	15/3.2/2/2 A	RCL175PQ46
90 W	175 W	5/24/F15/F15 VDC	15/3/2/2 A	RCL175PQ47

Notes:
Standard is open frame. For U-channel version, add suffix '-U'. For U-channel & cover, add suffix '-C'. For U-channel & fan cover, add suffix '-F'. For screw terminals, add suffix '-S'.12 CFM airflow required to meet force cooled rating.

150 to 180 Watts

GCS150-180

- 110/150 W - Convection-cooled
- 150/180 W - Forced-cooled
- IT & Medical Safety Approvals (Class I & II)
- <0.5 W No Load Input Power
- -40 °C to +70 °C Operation
- Remote On/Off (-R Models)
- Class B Conducted & Radiated Emissions
- 3 Year Warranty



Dimensions:

GCS150/GCS180:
5.00 x 3.00 x 1.42" (127.0 x 76.2 x 36.3 mm)
(-C): 5.50 x 3.48 x 1.70" (139.7 x 88.5 x 43.2 mm)
(-TF): 5.50 x 3.48 x 2.20" (139.7 x 88.5 x 57.8 mm)
(-EF): 6.35 x 3.48 x 1.70" (161.3 x 88.5 x 43.2 mm)

Power	Output Voltage	Output Current		Model
		Conv.	Forced	
150 W	12.0 VDC	9.2 A	12.5 A	GCS150PS12
150 W	15.0 VDC	7.3 A	10.0 A	GCS150PS15
150 W	24.0 VDC	4.6 A	6.3 A	GCS150PS24
150 W	28.0 VDC	3.9 A	5.4 A	GCS150PS28
150 W	48.0 VDC	2.3 A	3.2 A	GCS150PS48
180 W	12.0 VDC	12.5 A	15.0 A	GCS180PS12
180 W	15.0 VDC	10.0 A	12.0 A	GCS180PS15
180 W	24.0 VDC	6.3 A	7.5 A	GCS180PS24
180 W	28.0 VDC	5.4 A	6.4 A	GCS180PS28
180 W	48.0 VDC	3.1 A	3.7 A	GCS180PS48

Notes:
12 V/0.6 A fan supply available on open frame & -C versions.
For convection-cooled cover, add suffix '-C'. For fan-cooled cover with end fan, add suffix '-EF'. For fan-cooled cover with top fan, add suffix '-TF'. For remote on/off, add suffix '-R'.
7 CFM required for full power.

120 to 180 Watts

SDS120-180

- Convection-cooled
- 3"x 5" Footprint
- Up to 90% Efficiency
- Outputs from 3.3 to 48 V
- Open Frame, U-Channel & Covered Versions
- Low Temperature Option
- Single & Multi Outputs
- 3 Year Warranty

Dimensions:

SDS120: 5.00 x 3.20 x 1.54" (127.0 x 81.4 x 39.2 mm)
SDS150: 5.00 x 3.00 x 1.40" (127.0 x 76.2 x 35.6 mm)
SDS150B: 5.00 x 3.21 x 1.62" (127.0 x 81.5 x 41.2 mm)
SDS180: 5.00 x 3.21 x 1.54" (127.0 x 81.6 x 39.2 mm)

Power	Output Voltage	Output Current	Model
72.0 W	3.3 VDC	22.00 A	SDS120PS03B
110.0 W	5.0 VDC	22.00 A	SDS120PS05B
115.0 W	7.0 VDC	16.42 A	SDS120PS07B
120.0 W	9.0 VDC	13.33 A	SDS120PS09B
120.0 W	12.0 VDC	10.00 A	SDS120PS12B
120.0 W	15.0 VDC	8.00 A	SDS120PS15B
120.0 W	18.0 VDC	6.60 A	SDS120PS18B
120.0 W	24.0 VDC	5.00 A	SDS120PS24B
120.0 W	28.0 VDC	4.28 A	SDS120PS28B
120.0 W	36.0 VDC	3.33 A	SDS120PS36B
120.0 W	48.0 VDC	2.50 A	SDS120PS48B
79.5 W	3.3/5.0 VDC	15.0/6.0 A	SDS120PD00B
120.0 W	3.3/12.0 VDC	15.0/6.0 A	SDS120PD01B
120.0 W	5.0/12.0 VDC	15.0/6.0 A	SDS120PD02B
120.0 W	5.0/15.0 VDC	15.0/6.0 A	SDS120PD03B
120.0 W	5.0/24.0 VDC	15.0/3.5 A	SDS120PD04B
120.0 W	5.0/-24.0 VDC	15.0/2.0 A	SDS120PD05B
120.0 W	28.0/5.0 VDC	3.92/2.0 A	SDS120PD06B

Power	Output Voltage	Output Current	Model
91.5 W	3.3/5/12 VDC	15/6/1 A	SDS120PT00B
91.5 W	3.3/5/-12 VDC	15/6/1 A	SDS120PT01B
120.0 W	3.3/12/5 VDC	15/6/0.8 A	SDS120PT02B
120.0 W	3.3/12/-5 VDC	15/6/0.8 A	SDS120PT03B
120.0 W	3.3/12/-12 VDC	15/6/0.8 A	SDS120PT04B
120.0 W	3.3/12/12 VDC	15/6/0.8 A	SDS120PT05B
120.0 W	5/12/5 VDC	15/6/0.8 A	SDS120PT06B
120.0 W	5/12/-5 VDC	15/6/0.8 A	SDS120PT07B
120.0 W	5/12/-12 VDC	15/6/0.8 A	SDS120PT08B
120.0 W	5/12/12 VDC	15/6/0.8 A	SDS120PT09B
120.0 W	5/15/-15 VDC	15/6/0.8 A	SDS120PT10B
120.0 W	5/15/15 VDC	15/6/0.8 A	SDS120PT11B
120.0 W	5/24/-24 VDC	15/3.5/0.8 A	SDS120PT12B
120.0 W	5/24/24 VDC	15/3.5/0.8 A	SDS120PT13B
120.0 W	5/24/-12 VDC	15/3.5/0.8 A	SDS120PT14B
120.0 W	5/24/12 VDC	15/3.5/0.8 A	SDS120PT15B
120.0 W	5/10/-10 VDC	15/6/1 A	SDS120PT16B
120.0 W	5/10/10 VDC	15/6/1 A	SDS120PT17B

Power	Output Voltage	Output Current	Model
144 W	9.0 VDC	16.00 A	SDS150PS09B
150 W	12.0 VDC	12.50 A	SDS150PS12B
150 W	15.0 VDC	10.00 A	SDS150PS15B
150 W	18.0 VDC	8.33 A	SDS150PS18B
150 W	24.0 VDC	6.25 A	SDS150PS24B
150 W	30.0 VDC	5.00 A	SDS150PS30B
150 W	36.0 VDC	4.17 A	SDS150PS36B
150 W	48.0 VDC	3.13 A	SDS150PS48B

Power	Output Voltage	Output Current	Model
170 W	12.0. VDC	14.16 A	SDS180PS12B
180 W	24.0 VDC	7.50 A	SDS180PS24B
180 W	48.0 VDC	3.75 A	SDS180PS48B

Notes:
For PCB only, (L bracket - SDS180), delete 'B'. For low temperature -40 °C operation, add suffix '-L'. For power fail detect circuit, add suffix '-P'. For 2 pin molex input, add suffix '-D'.

200 Watts

CCB200

- 200 W Convection-cooled
- Very High Efficiency - up to 95%
- IT & Medical (BF) Safety Approvals
- 80 to 300 VAC Operation
- Remote On/Off
- Power Fail Signal
- Remote Sense
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
200 W	12.0 VDC	16.7 A	CCB200PS12
200 W	15.0 VDC	13.3 A	CCB200PS15
200 W	24.0 VDC	8.3 A	CCB200PS24
200 W	28.0 VDC	7.1 A	CCB200PS28
200 W	48.0 VDC	4.2 A	CCB200PS48

Dimensions:

CCB200: 5.00 x 3.00 x 1.43" (127.0 x 76.2 x 36.3 mm)

225 Watts

ECP225

- Low 1" Profile with 2.5"x 5" Footprint
- Very High Efficiency - up to 95%
- 150 W Convection-cooled
- 225 W Forced-cooled
- IT & Medical Approvals
- 12 V/0.5 A Fan Supply
- <0.5 W No Load Input Power
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Conv.	Forced	
225 W	12.0 VDC	12.50 A	18.75 A	ECP225PS12
225 W	15.0 VDC	10.00 A	15.00 A	ECP225PS15
225 W	24.0 VDC	6.25 A	9.38 A	ECP225PS24
225 W	28.0 VDC	5.36 A	8.04 A	ECP225PS28
225 W	48.0 VDC	3.10 A	4.69 A	ECP225PS48

Dimensions:

ECP225: 5.00 x 2.50 x 1.00" (127.0 x 63.5 x 25.4 mm)

Notes:
10 CFM required for full power operation. '3x5' version available for OEM quantities, add suffix '-3x5'.

250 Watts

CCM250

- 250 W Convection-cooled
- 300 W Peak Rating for 500 ms
- Very High Efficiency - up to 95%
- Class B Conducted & Radiated Emissions
- 80 to 275 VAC Operation
- 5 V/0.5 A Standby Rail
- IT & Medical Safety Approvals
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
250 W	12.0 VDC	20.8 A	25.00 A	CCM250PS12
250 W	15.0 VDC	16.7 A	20.00 A	CCM250PS15
250 W	24.0 VDC	10.4 A	12.50 A	CCM250PS24
250 W	28.0 VDC	8.9 A	10.70 A	CCM250PS28
250 W	36.0 VDC	6.9 A	8.30 A	CCM250PS36
250 W	48.0 VDC	5.2 A	6.25 A	CCM250PS48

Dimensions:

CCM250: 6.00 x 4.00 x 1.54" (152.4 x 101.6 x 39.1 mm)

Notes:
Peak power duration is 500 ms max, average power must not exceed 250 W.

250 Watts

CCB250

- 250 W Convection-cooled
- 300 W Peak Rating for 500 ms
- Very High Efficiency up to 95%
- 5 V/0.5 A Standby Rail and Inhibit Function
- Power Fail Signal
- 80 to 275 VAC Operation
- IT & Medical (BF) Safety Approvals
- 3 Year Warranty

Dimensions:

CCB250: 6.00 x 4.00 x 1.50" (152.4 x 101.6 x 38.1 mm)

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
250 W	12.0 VDC	20.80 A	25.00 A	CCB250PS12
250 W	15.0 VDC	16.70 A	20.00 A	CCB250PS15
250 W	24.0 VDC	10.40 A	12.50 A	CCB250PS24
250 W	28.0 VDC	8.90 A	10.70 A	CCB250PS28
250 W	36.0 VDC	6.90 A	8.30 A	CCB250PS36
250 W	48.0 VDC	5.20 A	5.20 A	CCB250PS48

Notes:
Peak power duration is 500 ms max, average power must not exceed 250 W.

300 Watts

SDF300

- 3.2"x 5" Footprint
- Fits 1U Applications
- Up to 150 W Convection-cooled
- Up to 600 W Peak Power for 500 µs
- Single & Dual Outputs
- Outputs from 5 V to 54 V
- Power Good Signal
- 3 Year Warranty

Dimensions:

SDF300:
5.00 x 3.20 x 1.50" (127.0 x 81.28 x 38.10 mm)
(-C): 5.00 x 3.20 x 1.66" (127.0 x 81.28 x 42.10 mm)
(-F): 5.00 x 3.20 x 2.23" (127.0 x 81.28 x 56.75 mm)
(-E): 6.50 x 3.20 x 1.60" (165.1 x 81.28 x 40.64 mm)

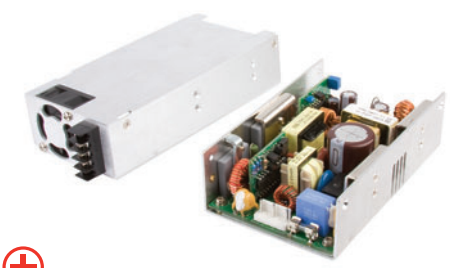
Power	Output Voltage	Output Current		Model
		Nom.	Peak	
210 W	5.0 VDC	42.00 A	120.00 A	SDF300PS05(1)
245 W	9.0 VDC	27.27 A	66.67 A	SDF300PS09(1)
300 W	12.0 VDC	25.00 A	50.00 A	SDF300PS12
300 W	15.0 VDC	20.00 A	40.00 A	SDF300PS15
300 W	18.0 VDC	16.67 A	33.30 A	SDF300PS18(1)
300 W	24.0 VDC	12.50 A	25.00 A	SDF300PS24
300 W	28.0 VDC	10.70 A	21.43 A	SDF300PS28(1)
300 W	36.0 VDC	8.33 A	16.67 A	SDF300PS36(1)
300 W	48.0 VDC	6.25 A	12.50 A	SDF300PS48
300 W	54.0 VDC	5.56 A	11.10 A	SDF300PS54(1)
240 W	5.0/12.0 VDC	24.0/13.33 A	28.8/16.0 A	SDF300PD0512(1)
240 W	5.0/24.0 VDC	24.0/6.67 A	28.8/8.0 A	SDF300PD0524(1)
240 W	5.0/48.0 VDC	24.0/3.33 A	28.8/4.0 A	SDF300PD0548(1)
240 W	12.0/24.0 VDC	13.33/6.67 A	16.0/8.0 A	SDF300PD1224(1)

Notes:
1. Available for OEM quantities.
15 CFM required for U-channel and '-C' for full power. Add suffix '-E' for end fan option, '-F' for top fan option, '-C' for covered option & '-K' for end fan cover with IEC inlet option.

300 Watts

SDM300

- Medical Approvals
- 3.2"x 5" Footprint
- Fits 1U Applications
- Up to 150 W Convection-cooled
- Up to 600 W Peak Power for 500 µs
- Single & Dual Outputs
- Outputs from 5 to 54 V
- 3 Year Warranty



Dimensions:

SDM300:
5.00 x 3.20 x 1.50" (127.0 x 81.28 x 38.10 mm)
(-F): 5.00 x 3.20 x 2.23" (127.0 x 81.28 x 56.75 mm)
(-E): 6.50 x 3.20 x 1.60" (165.10 x 81.28 x 40.64 mm)

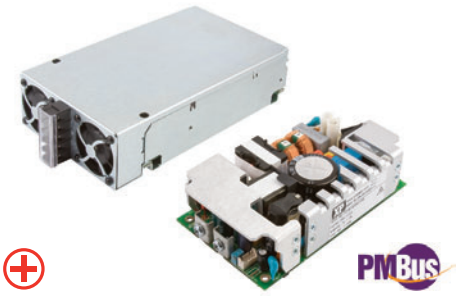
Power	Output Voltage	Output Current		Model
		Nom.	Peak	
300 W	12.0 VDC	25.00 A	50.00 A	SDM300PS12
300 W	15.0 VDC	20.00 A	40.00 A	SDM300PS15(1)
300 W	24.0 VDC	12.50 A	25.00 A	SDM300PS24
300 W	36.0 VDC	8.33 A	16.67 A	SDM300PS36(1)
300 W	48.0 VDC	6.25 A	12.50 A	SDM300PS48
240 W	5.0/12.0 VDC	24.0/13.3 A	28.8/16.0 A	SDM300PD0512
240 W	12.0/24.0 VDC	13.33/6.67 A	16.00/8.0 A	SDM300PD1224

Notes:
1. Available for OEM quantities
For end fan option, add suffix '-E'. For top fan option, add suffix '-F'.
15 CFM is required for U-channel for full power.

250 to 350 Watts

EMH250-350

- Industry Standard 3" x 5" & 6" x 4" Formats
- IT & Medical (BF) Approvals
- Single & Dual Outputs
- Optional ORing Diode (EMH350D Models)
- Analog & PMBus Signals Options (EMH350)
- 5 V/2 A Standby (EMH350)
- 12 V/0.6 A Fan Supply
- 3 Year Warranty



Dimensions:

EMH PS: 5.00 x 3.00 x 1.43" (127.0 x 76.2 x 36.3 mm)
(-TF): 5.00 x 3.56 x 2.78" (127.0 x 90.4 x 70.5 mm)
(D): 5.75 x 3.00 x 1.43" (146.0 x 76.2 x 36.3 mm)
EMH PD:
(-U): 6.00 x 4.00 x 1.58" (152.4 x 101.6 x 40.1 mm)
(-EF): 7.00 x 4.00 x 1.75" (177.8 x 101.6 x 44.5 mm)

Power	Output Voltage	Output Current	Model
252 W	12.0 VDC	21.0 A	EMH250PS12
252 W	18.0 VDC	14.0 A	EMH250PS18
252 W	24.0 VDC	10.5 A	EMH250PS24
250 W	48.0 VDC	5.2 A	EMH250PS48
354 W	12.0 VDC	29.2 A	EMH350PS12
354 W	18.0 VDC	19.5 A	EMH350PS18
355 W	24.0 VDC	14.6 A	EMH350PS24
354 W	48.0 VDC	7.3 A	EMH350PS48
350 W	12/24 VDC	16.5/8.3 A	EMH350PD21-EF
350 W	12/36 VDC	16.5/5.5 A	EMH350PD22-EF
350 W	12/48 VDC	16.5/4.2 A	EMH350PD23-EF
350 W	24/48 VDC	8.3/4.2 A	EMH350PD24-EF

Notes:
EMH PS
12 CFM required for full power. For top fan version, add suffix '-TF'. For integral ORing diode version add suffix 'D' (EMH350 models).
EMH PD:
Standard models have end fan '-EF' fitted. For U-channel version replace suffix '-EF' with suffix '-U'.

400 Watts

SDL400

- High Power Density
- Single & Dual Outputs
- Up to 700 W Peak Power for 500 µs
- Outputs from 5 to 60 V
- Fan Fail & Power Good Signals
- Low Leakage Current Option
- Fits 1U Applications
- 3 Year Warranty

Dimensions:

SDL400:
6.00 x 4.00 x 1.50" (152.40 x 101.60 x 38.10 mm)
(-F): 6.00 x 4.00 x 2.14" (152.40 x 101.60 x 54.30 mm)
(-E): 7.00 x 4.00 x 1.60" (177.80 x 101.60 x 40.64 mm)
(-C): 6.00 x 4.00 x 1.55" (152.40 x 101.60 x 39.30 mm)

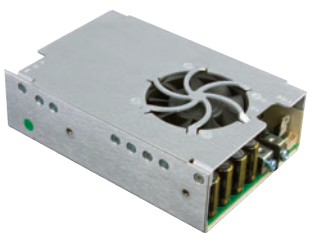
Power	Output Voltage	Output Current		Model
		Conv.	Forced	
400 W	12.0 VDC	18.33A	33.33 A	SDL400PS12
400 W	15.0 VDC	14.67 A	26.67 A	SDL400PS15[1]
400 W	18.0 VDC	12.22 A	22.22 A	SDL400PS18[1]
400 W	24.0 VDC	9.17 A	16.67 A	SDL400PS24
400 W	28.0 VDC	7.86 A	14.29 A	SDL400PS28[1]
400 W	36.0 VDC	6.11 A	11.11 A	SDL400PS36
400 W	48.0 VDC	4.58 A	8.33 A	SDL400PS48
400 W	54.0 VDC	4.07 A	7.41 A	SDL400PS54[1]
400 W	60.0 VDC	3.67 A	6.67 A	SDL400PS60[1]
320 W	5/12 VDC	15.0/13.33 A	30.00/20.83 A	SDL400PD0512[1]
320 W	5/24 VDC	15.0/6.67 A	30.00/10.42 A	SDL400PD0524[1]
320 W	5/48 VDC	15.0/3.33 A	30.00/5.21 A	SDL400PD0548[1]
400 W	12/24 VDC	12.50/8.33 A	20.83/10.42 A	SDL400PD1224

Notes:
1. Available for OEM quantities
For end fan option, add suffix '-E'. For top fan option, add suffix '-F'. For covered option, add suffix '-C'.

400 Watts

FCM400

- 400 W Continuous, 600 W Peak
- IT & Medical Approvals
- 80 to 275 VAC Operation
- Low Noise Fan
- Screw Terminals
- 5 V/0.5 A Standby
- AC OK and Remote On/Off
- 3 Year Warranty



Dimensions:

FCM400: 6.00 x 4.00 x 1.93" (152.4 x 101.6 x 49.0mm)

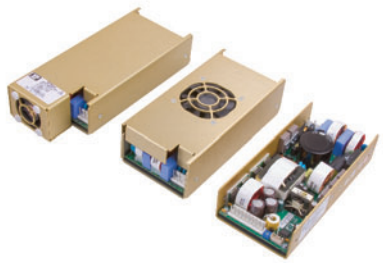
Power	Output Voltage	Output Current		Model
		Nom.	Peak	
400 W	12.0 VDC	33.3 A	50.0 A	FCM400PS12
400 W	15.0 VDC	26.6 A	40.0 A	FCM400PS15
400 W	24.0 VDC	16.6 A	25.0 A	FCM400PS24
400 W	28.0 VDC	14.2 A	21.4 A	FCM400PS28
400 W	36.0 VDC	11.1 A	16.7 A	FCM400PS36
400 W	48.0 VDC	8.3 A	12.5 A	FCM400PS48

Notes:
Peak power duration is 500 ms max, average power not to exceed 400 W.

350 to 420 Watts

MFA350-420

- U-Channel, Cover Fan & Hotswap Formats
- Power Density up to 12.8 W/in³
- Power Fail & DC OK Signals
- Active Current Share
- 5 V/0.3 A Standby Output
- 12 V/1 A Fan Supply Output
- Screw Terminals Available
- 3 Year Warranty



Power	Output Voltage	Output Current	Model
361 W	12.0 VDC	29.0 A	MFA350PS12
361 W	24.0 VDC	14.5 A	MFA350PS24
364 W	48.0 VDC	7.3 A	MFA350PS48
434 W	12.0 VDC	35.0 A	MFA420PS12
434 W	24.0 VDC	17.5 A	MFA420PS24
436 W	48.0 VDC	8.8 A	MFA420PS48

Dimensions:

MFA350/420:
6.80 x 3.20 x 1.50" (172.7 x 81.3 x 38.1 mm)
(-TF): 6.80 x 3.33 x 2.00" (172.7 x 84.5 x 50.8 mm)
(-EF): 8.20 x 3.33 x 1.75" (208.3 x 84.5 x 44.5 mm)
(-H): 10.4 x 3.30 x 1.60" (263.8 x 83.8 x 40.6 mm)

Notes:
13 CFM required for U-channel version.
For hotswap, add suffix '-H'. For end fan, add suffix '-E'. For top fan, add suffix '-F'. For screw terminal, add suffix '-S'.

150 to 500 Watts

LCL150-500

- Single Output Industrial Supplies
- High Efficiency
- Low Cost
- 150 W Convection-cooled
- 300 W & 500 W with Internal Fans
- Outputs from 12 V to 48 V
- Remote On/Off (LCL300 & LCL500)
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
150 W	12.0 VDC	12.50 A	LCL150PS12
150 W	13.5 VDC	11.10 A	LCL150PS13
150 W	15.0 VDC	10.00 A	LCL150PS15
150 W	24.0 VDC	6.30 A	LCL150PS24
150 W	27.0 VDC	5.60 A	LCL150PS27
150 W	48.0 VDC	3.10 A	LCL150PS48
300 W	12.0 VDC	25.00 A	LCL300PS12
300 W	13.5 VDC	22.00 A	LCL300PS13
300 W	15.0 VDC	20.00 A	LCL300PS15
310 W	24.0 VDC	13.00 A	LCL300PS24
315 W	27.0 VDC	11.70 A	LCL300PS27
320 W	48.0 VDC	6.70 A	LCL300PS48
500 W	12.0 VDC	42.00 A	LCL500PS12
500 W	13.5 VDC	37.00 A	LCL500PS13
500 W	15.0 VDC	34.00A	LCL500PS15
500 W	24.0 VDC	21.00 A	LCL500PS24
500 W	27.0 VDC	18.50 A	LCL500PS27
500 W	48.0 VDC	10.50 A	LCL500PS48

Dimensions:

LCL150: 7.55 x 3.74 x 1.97" (192.0 x 95.0 x 50.0 mm)
LCL300: 8.07 x 4.33 x 1.97" (205.0 x 110.0 x 50.0 mm)
LCL500: 9.84 x 5.00 x 2.08" (250.0 x 127.0 x 53.0 mm)

400 to 600 Watts

CCH400-600

- Baseplate-cooled
- High Efficiency - up to 90%
- -40 °C to +70 °C Operation
- Industrial & MIL-STD461E EMC Compliance
- Power Fail, Inhibit & Current Share
- Overtemperature Protection
- 5 V/0.5 A Standby Output
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
411 W	12.0 VDC	34.0 A	CCH400PS12
411 W	24.0 VDC	17.0 A	CCH400PS24
409 W	28.0 VDC	14.5 A	CCH400PS28
411 W	48.0 VDC	8.5 A	CCH400PS48
603 W	12.0 VDC	50.0 A	CCH600PS12
603 W	24.0 VDC	25.0 A	CCH600PS24
605 W	28.0 VDC	21.5 A	CCH600PS28
603 W	48.0 VDC	12.5 A	CCH600PS48

Dimensions:

CCH400/CCH600:
8.43 x 4.02 x 1.69" (214.0 x 102.0 x 43.0 mm)

Notes:
Max baseplate temperature 85 °C.

350 to 1000 Watts

SHP350-1000

- Rugged Industrial Construction
- Variable Fan Speed for Noise Reduction
- -20 °C to +70 °C Operation
- 5 V Standby
- AC OK, Remote On/Off
- Active Current Share
- Screw Terminals
- 3 Year Warranty

Dimensions:

SHP350-EF:
7.00 x 3.60 x 2.10" (177.8 x 91.4 x 53.3 mm)
SHP650:
(-EF): 9.18 x 4.00 x 2.50" (233.2 x 101.6 x 63.5 mm)
(-TF): 8.00 x 4.00 x 2.58" (203.2 x 101.6 x 65.5 mm)
SHP1000:
9.55 x 5.90 x 2.40" (242.6 x 149.8 x 61.0 mm)

Power	Output Voltage	Output Current		Model
		Cont.	Peak	
318 W	12.0 VDC	26.50 A	-	SHP350PS12
330 W	15.0 VDC	22.00 A	-	SHP350PS15
348 W	24.0 VDC	14.50 A	17.50 A	SHP350PS24
350 W	28.0 VDC	12.50 A	15.00 A	SHP350PS28
350 W	36.0 VDC	9.70 A	11.66 A	SHP350PS36
350 W	48.0 VDC	7.30 A	8.75 A	SHP350PS48

Power	Output Voltage	Output Current	Model
607 W	12.0 VDC	50.00 A	SHP650PS12-EF
607 W	15.0 VDC	40.00 A	SHP650PS15-EF
655 W	24.0 VDC	27.00 A	SHP650PS24-EF
655 W	28.0 VDC	23.00 A	SHP650PS28-EF
655 W	36.0 VDC	18.00 A	SHP650PS36-EF
655 W	48.0 VDC	13.50 A	SHP650PS48-EF

Power	Output Voltage	Output Current		Model
		<180 V	>180 V	
1000 W	12.0 VDC	83.00 A	83.00 A	SHP1000PS12
1010 W	15.0 VDC	67.00 A	67.00 A	SHP1000PS15
1200 W	24.0 VDC	42.00 A	50.00 A	SHP1000PS24
1200 W	28.0 VDC	36.00 A	43.00 A	SHP1000PS28
1200 W	36.0 VDC	28.00 A	34.00 A	SHP1000PS36
1200 W	48.0 VDC	21.00 A	25.00 A	SHP1000PS48

Notes:
Replace suffix '-EF' with '-TF' for top fan (650 W). Peak power available for 10 s with 35% duty cycle (350 W). U-channel version available (650 W). 5V standby 0.2 A (350 & 650 W), 1.0 A (1000 W).

650 to 1000 Watts

MHP650-1000

- Rugged Construction
- Variable Fan Speed for Noise Reduction
- -20 °C to +70 °C Operation
- 5 V Standby
- AC OK, Remote On/Off
- Active Current Share
- Screw Terminals
- 3 Year Warranty

Dimensions:

MHP650-EF:
(-EF): 9.18 x 4.00 x 2.50" (233.2 x 101.6 x 63.5 mm)
(-TF): 8.00 x 4.00 x 2.58" (203.2 x 101.6 x 65.5 mm)
MHP1000:
9.55 x 5.90 x 2.40" (242.6 x 149.8 x 61.0 mm)

Power	Output Voltage	Output Current	Model
607 W	12.0 VDC	50.00 A	MHP650PS12-EF
607 W	15.0 VDC	40.00 A	MHP650PS15-EF
655 W	24.0 VDC	27.00 A	MHP650PS24-EF
655 W	28.0 VDC	23.00 A	MHP650PS28-EF
655 W	36.0 VDC	18.00 A	MHP650PS36-EF
655 W	48.0 VDC	13.50 A	MHP650PS48-EF

Power	Output Voltage	Output Current		Model
		<180 V	>180 V	
1000 W	12.0 VDC	83.00 A	83.00 A	MHP1000PS12
1010 W	15.0 VDC	67.00 A	67.00 A	MHP1000PS15
1200 W	24.0 VDC	42.00 A	50.00 A	MHP1000PS24
1200 W	28.0 VDC	36.00 A	43.00 A	MHP1000PS28
1200 W	36.0 VDC	28.00 A	34.00 A	MHP1000PS36
1200 W	48.0 VDC	21.00 A	25.00 A	MHP1000PS48

Notes:
Replace suffix '-EF' with '-TF' for top fan (650 W).
U-channel version available (650 W).
5 V standby 0.2 A (650 W), 1.0 A (1000 W).

1500 Watts

GFR1K5

- 1U Blind-Mate, Hotswap, Redundant
- Variable Fan Speed to Reduce Audible Noise
- 56 V Power Over Ethernet Compatible Model
- Up to 6 kW in 1U (Rack Available)
- AC OK, DC OK & Inhibit
- Enable 5 V/1 A Standby Supply
- Current Share & I²C Interface
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		<180 V	>180 V	
1200 W	12.0 VDC	100.0 A	100.0 A	GFR1K5PS12
1500 W	24.0 VDC	50.0 A	63.0 A	GFR1K5PS24
1500 W	48.0 VDC	25.0 A	31.0 A	GFR1K5PS48
1500 W	56.0 VDC	22.0 A	27.0 A	GFR1K5PS56

Dimensions:

GFK1K5:
11.80 x 4.00 x 1.70" (299.7 x 101.6 x 43.3 mm)

Notes:
Single and dual output racks available for up to 4 GFR1K5 modules.

1500 Watts

HPU1K5

- Medical Safety Approvals (-M Versions)
- Variable Fan Speed To Reduce Audible Noise
- -20 °C to +70 °C Operation
- AC OK, DC OK & Inhibit
- 5 V/1 A Standby Supply
- Fault & Overtemperature Signals
- SEMI F47 Compliant
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		<180 V	>180 V	
1200 W	12.0 VDC	100.0 A	100.0 A	HPU1K5PS12
1500 W	24.0 VDC	50.0 A	63.0 A	HPU1K5PS24
1500 W	48.0 VDC	25.0 A	31.0 A	HPU1K5PS48

Dimensions:

HPU1K5:
12.75 x 4.00 x 1.70" (323.9 x 101.6 x 43.2 mm)

Notes:
For medical version, add suffix '-M' to model number.

800 to1500 Watts

HDS800-1500

- Programmable Output Voltage (0 - 105%)
- Programmable Output Current (0 - 105%)
- Parallel Operation
- Fully Featured Signals and Controls
- Variable Fan Speed to Reduce Audible Noise
- I²C & RS232 Options
- 5 V/0.5 A Standby Supply
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
800 W	12.0 VDC	66.7 A	HDS800PS12
800 W	15.0 VDC	53.4 A	HDS800PS15
800 W	24.0 VDC	33.5 A	HDS800PS24
800 W	30.0 VDC	26.7 A	HDS800PS30
800 W	36.0 VDC	22.3 A	HDS800PS36
800 W	48.0 VDC	16.7 A	HDS800PS48
1500 W	12.0 VDC	125.0 A	HDS1500PS12
1500 W	15.0 VDC	100.0 A	HDS1500PS15
1500 W	24.0 VDC	62.5 A	HDS1500PS24
1500 W	30.0 VDC	50.0 A	HDS1500PS30
1500 W	36.0 VDC	41.7 A	HDS1500PS36
1500 W	48.0 VDC	31.3 A	HDS1500PS48
1500 W	60.0 VDC	25.0 A	HDS1500PS60

Dimensions:

HDS800:
9.80 x 5.00 x 1.61" (249.0 x 127.0 x 40.9 mm)
HDS1500:
12.31 x 5.00 x 2.50" (312.7 x 127.0 x 63.5 mm)

400 to 2500 Watts

fleXPower

- Configurable for Fast Time to Market
- IT & Medical Versions
- SEMI F47 Compliant
- Flexible Series & Parallel Capability
- -20 °C to +70 °C Operation
- Extra Power Available at High Line
- Optional Fan Speed Control
- 3 Year Warranty

Dimensions:

fleXPower:
X4/XM4/X5/XM5/X7/XM7:
10.00 x 5.00 x 2.50" (254.0 x 127.0 x 63.5 mm)
X9/XM9:
10.00 x 6.00 x 2.50" (254.0 x 152.4 x 63.5 mm)
X10/XM10:
10.00 x 7.00 x 2.50" (254.0 x 177.8 x 63.5 mm)
X15/XM15:
11.0 x 5.00 x 5.00" (279.4 x 127.0 x 127.0 mm)
X4DD/XM4DD/X5DD/XM5DD/X7DD/XM7DD:
10.00 x 5.20 x 5.00" (254.0 x 132.1 x 127.0 mm)
X9DD/XM9DD:
10.00 x 6.20 x 5.00" (254.0 x 157.5 x 127.0 mm)
X10DD/XM10DD:
10.00 x 7.00 x 5.00" (254.0 x 177.8 x 127.0mm)

Chassis Ratings						
Model	Sector	V input				Slots
		115 V		230 V		
		Pnom	Ppk(1)	Pnom	Ppk(1)	
X4	Industrial	400 W	800 W	600 W	1200 W	10
XM4	Medical	400 W	800 W	600 W	1200 W	10
X5	Industrial	500 W	800 W	700 W	1200 W	10
XM5	Medical	500 W	800 W	700 W	1200 W	10
X7	Industrial	700 W	800 W	900 W	1200 W	10
XM7	Medical	700 W	800 W	900 W	1200 W	10
X9	Industrial	900 W	1100 W	1100 W	1500 W	12
XM9	Medical	900 W	1100 W	1100 W	1500 W	12
X10	Industrial	1000 W	1300 W	1200 W	1600 W	14
XM10	Medical	1000 W	1300 W	1200 W	1600 W	14
X15	Industrial	1500 W	1500 W	2500 W	2500 W	20
XM15	Medical	1500 W	1500 W	2500 W	2500 W	20

Notes:
1. Peak power available for 10 seconds with 35% duty cycle.
2. Chassis includes 5 V/1 A standby supply, global inhibit, global DC OK & global AC OK.
3. For operation above +50 °C derate linearly to 50% load at 70 °C.

Configuration

To configure your fleXPower unit, select the required output power and application type, then add up to seven modules (ten modules for X15 and XM15) that meet your output requirements. Please see the fleXPower datasheet at www.xppower.com to assist in your model number construction and further details of series and parallel options and signals.

Single Output - Module Voltage/Current Rating						
Voltage	Current	Ipk	Power	Ppk	Slots	Code
3.3 VDC	20.0 A	n/a	66 W	n/a	2	1C
3.3 VDC	40.0 A	n/a	132 W	n/a	2	2C
3.3 VDC	60.0 A	n/a	198 W	n/a	3	3C
5.0 VDC	20.0 A	n/a	100 W	n/a	2	1D
5.0 VDC	40.0 A	n/a	200 W	n/a	2	2D
5.0 VDC	60.0 A	n/a	300 W	n/a	3	3D
12.0 VDC	8.50 A	n/a	102 W	n/a	2	1J
12.0 VDC	17.0 A	n/a	204 W	n/a	2	2J
12.0 VDC	25.0 A	n/a	300 W	n/a	3	3J
12.0 VDC	62.5 A	n/a	750 W	n/a	4	4J
15.0 VDC	7.00 A	n/a	105 W	n/a	2	1L
15.0 VDC	14.0 A	n/a	210 W	n/a	2	2L
15.0 VDC	20.0 A	n/a	300 W	n/a	3	3L
15.0 VDC	50.0 A	n/a	750 W	n/a	4	4L
24.0 VDC	5.00 A	n/a	120 W	n/a	2	1P
24.0 VDC	10.5 A	n/a	252 W	n/a	2	2P
24.0 VDC	17.0 A	n/a	408 W	n/a	3	3P
24.0 VDC	31.5 A	n/a	750 W	n/a	4	4P
24.0 VDC	5.00 A	10.0 A	120 W	240 W	2	1R(1)
24.0 VDC	10.5 A	21.0 A	252 W	504 W	2	2R(1)
24.0 VDC	17.0 A	34.0 A	408 W	816 W	3	3R(1)
28.0 VDC	4.50 A	n/a	126 W	n/a	2	1Q
28.0 VDC	9.00 A	n/a	252 W	n/a	2	2Q
28.0 VDC	14.0 A	n/a	392 W	n/a	3	3Q
28.0 VDC	26.8 A	n/a	750 W	n/a	4	4Q
36.0 VDC	3.50 A	n/a	126 W	n/a	2	1U
36.0 VDC	7.00 A	n/a	252 W	n/a	2	2U
36.0 VDC	11.0 A	n/a	396 W	n/a	3	3U
36.0 VDC	21.0 A	n/a	750 W	n/a	4	4U
48.0 VDC	2.50 A	n/a	120 W	n/a	2	1W
48.0 VDC	5.20 A	n/a	249 W	n/a	2	2W
48.0 VDC	8.50 A	n/a	408 W	n/a	3	3W
48.0 VDC	15.7 A	n/a	750 W	n/a	4	4W
60.0 VDC	2.00 A	n/a	120 W	n/a	2	1Y
60.0 VDC	4.20 A	n/a	252 W	n/a	2	2Y
60.0 VDC	7.00 A	n/a	420 W	n/a	3	3Y
60.0 VDC	12.5 A	n/a	750 W	n/a	4	4Y

Notes:
1. Peak power available for 10 seconds with 35% duty cycle, if peak power rating is exceeded output may latch, recycle input to reset.
2. Module includes remote sense, DC OK, module inhibit, VPROG & current share.

Dual Output - Module Voltage/Current Rating					
Output 1		Output 2		Slots	Code
Voltage	Current	Voltage	Current		
5.0 VDC	10.0 A	5.0 VDC	10.0 A	2	5A
5.0 VDC	10.0 A	3.3 VDC	10.0 A	2	5B
12.0 VDC	10.0 A	12.0 VDC	8.0 A	2	5D
15.0 VDC	8.0 A	15.0 VDC	6.0 A	2	5E
15.0 VDC	8.0 A	12.0 VDC	8.0 A	2	5F
12.0 VDC	10.0 A	5.0 VDC	10.0 A	2	5G
12.0 VDC	10.0 A	3.3 VDC	10.0 A	2	5H
12.0 VDC	10.0 A	2.0 VDC	10.0 A	2	5J
15.0 VDC	10.0 A	5.0 VDC	10.0 A	2	5K
15.0 VDC	10.0 A	3.3 VDC	10.0 A	2	5L
15.0 VDC	10.0 A	2.0 VDC	10.0 A	2	5M
24.0 VDC	6.0 A	5.0 VDC	10.0 A	2	5N
24.0 VDC	6.0 A	3.3 VDC	10.0 A	2	5P
24.0 VDC	6.0 A	2.0 VDC	10.0 A	2	5Q

Notes:
1. Total power for dual output module must not exceed 175 W max.
2. Module includes global inhibit & DC OK.

Signals

- Global AC OK/Power Fail
- Global DC OK
- Global Inhibit
- Fan Fail
- Module DC OK
- Module Inhibit
- Current Share

650 to 3000 Watts

HCP650-3000

- High Efficiency - up to 91%
- High Power Density
- Programmable Output Voltage (30%-105%)
- Programmable Output Current (40%-105%)
- Parallel Operation
- Fully Featured Signals & Controls
- 5 V/0.5 A Standby
- 3 Year Warranty

Dimensions:

HCP650:
9.80 x 5.00 x 1.61" (249.0 x 127.0 x 40.9 mm)
HCP1000:
11.14 x 5.00 x 1.61" (283.0 x 127.0 x 40.9 mm)
HCP1500:
12.31 x 5.00 x 2.50" (312.7 x 127.0 x 63.5 mm)
HCP3000:
13.39 x 5.00 x 5.00" (340.0 x 127.0 x 127.0 mm)

Power	Output Voltage	Output Current	Model
500 W	5.0 VDC	100.0 A	HCP650PS05
600 W	12.0 VDC	50.0 A	HCP650PS12
600 W	15.0 VDC	40.0 A	HCP650PS15
650 W	24.0 VDC	27.0 A	HCP650PS24
650 W	27.0 VDC	24.0 A	HCP650PS27
650 W	48.0 VDC	13.6 A	HCP650PS48
750 W	12.0 VDC	62.0 A	HCP1000PS12
750 W	15.0 VDC	50.0 A	HCP1000PS15
960 W	24.0 VDC	40.0 A	HCP1000PS24
1000 W	27.0 VDC	37.0 A	HCP1000PS27
1000 W	48.0 VDC	21.0 A	HCP1000PS48
1500 W	12.0 VDC	125.0 A	HCP1500PS12
1500 W	15.0 VDC	100.0 A	HCP1500PS15
1500 W	24.0 VDC	62.5 A	HCP1500PS24
1500 W	27.0 VDC	55.5 A	HCP1500PS27
1500 W	48.0 VDC	31.3 A	HCP1500PS48
3000 W	12.0 VDC	250.0 A	HCP3000PS12
3000 W	15.0 VDC	200.0 A	HCP3000PS15
3000 W	24.0 VDC	125.0 A	HCP3000PS24
3000 W	27.0 VDC	111.1 A	HCP3000PS27
3000 W	48.0 VDC	62.5 A	HCP3000PS48

5 to 60 Watts

DNR05-60

- Rugged Design for Industrial Applications
- Up to 89% Efficiency
- Full Power to +60 °C
- UL508, UL60950-1,EN60950-1
- ANSI/ISA 12.12.01
- DC OK (24 V Models)
- DC Standby Versions Available
- 3 Year Warranty

Dimensions:

DNR05/10/18:
4.53 x 0.89 x 3.48 " (115.0 x 22.5 x 88.5 mm)
DNR30/60:
4.53 x 1.59 x 3.60" (115.0 x 40.5 x 90.0 mm)

Power	Output Voltage	Output Current	Model
5 W	5.0 VDC	1.000 A	DNR05US05
5 W	12.0 VDC	0.420 A	DNR05US12
5 W	15.0 VDC	0.340 A	DNR05US15
5 W	24.0 VDC	0.210 A	DNR05US24
10 W	5.0 VDC	2.000 A	DNR10US05
10 W	12.0 VDC	0.840 A	DNR10US12
10 W	15.0 VDC	0.670 A	DNR10US15
10 W	24.0 VDC	0.420 A	DNR10US24
15 W	5.0 VDC	3.000 A	DNR18US05
18 W	12.0 VDC	1.500 A	DNR18US12
18 W	15.0 VDC	1.200 A	DNR18US15
18 W	24.0 VDC	0.750 A	DNR18US24
30 W	5.0 VDC	6.000 A	DNR30US05
30 W	12.0 VDC	2.500 A	DNR30US12
30 W	24.0 VDC	1.250 A	DNR30US24
30 W	48.0 VDC	0.625 A	DNR30US48
50 W	5.0 VDC	10.000 A	DNR60US05
60 W	12.0 VDC	5.000 A	DNR60US12
60 W	24.0 VDC	2.500 A	DNR60US24
60 W	48.0 VDC	1.250 A	DNR60US48

Notes:
For spring clamp connection option, add suffix '-S'.

120 - 240 Watts

DSL120-240

- Ultra Slim Design
- 150% Peak Load for 3 seconds
- Full Power from -40 °C to +60 °C
- High Efficiency - up to 93%
- UL508, UL60950-1 & EN60950-1
- ANSI/ISA 12.12.01
- Parallel Capability
- 3 Year Warranty

Power	Output Voltage	Output Current		Model
		Nom.	Peak	
120 W	12.0 VDC	10.00 A	15.00 A	DSL120PS12-I
120 W	24.0 VDC	5.00 A	7.50 A	DSL120PS24-I
120 W	48.0 VDC	2.50 A	3.75 A	DSL120PS48-I
192 W	12.0 VDC	16.00 A	24.00 A	DSL240PS12-I
240 W	24.0 VDC	10.00 A	15.00 A	DSL240PS24-I

Dimensions:

DSL120: 4.59 x1.57 x 4.87" (116.6 x 40.0 x 123.6 mm)
DSL240: 4.59 x 2.52 x 4.90" (116.6 x 64.0 x 124.5 mm)

Notes:
Peak load lasting <3 s with a maximum duty cycle of 20%. Average power not to exceed nominal power.
For detachable connectors, add suffix '- D'.

120 to 480 Watts

DNR120-480

- Up to 90% Efficiency
- Wide Adjustment Range
- Parallel Function
- DC Standby Versions Available
- Full Power from -40 °C to +60 °C
- DC OK (24 V models)
- Connector Options
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
120 W	12.0 VDC	10.00 A	DNR120AS12-I
120 W	24.0 VDC	5.00 A	DNR120AS24-I
120 W	48.0 VDC	2.50 A	DNR120AS48-I
240 W	24.0 VDC	10.00 A	DNR240PS24-I
240 W	48.0 VDC	5.00 A	DNR240PS48-I
480 W	24.0 VDC	20.00 A	DNR480PS24-I
480 W	48.0 VDC	10.00 A	DNR480PS48-I

Dimensions:

DNR120: 4.57 x 2.50 x 4.92" (116.0 x 63.5 x 125.0 mm)
DNR240: 4.39 x 3.27 x 4.92" (111.3 x 83.0 x 125.0 mm)
DNR480: 4.57 x 6.89 x 4.92" (116.0 x 175.0 x 125.0 mm)

Notes:
For detachable connectors, add suffix '- D'.

120 to 960 Watts

DNR120-960TS

- Three Phase AC Input
- Up to 93% Efficiency
- Wide Adjustment Range
- Full Power -40 °C to +60 °C
- Rugged Design for Industrial Applications
- Single Phase Input Operation (340-575 VAC)
- DC OK (24 V models)
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
120 W	12.0 VDC	10.00 A	DNR120TS12
120 W	24.0 VDC	5.00 A	DNR120TS24
240 W	24.0 VDC	10.00 A	DNR240TS24-I
240 W	48.0 VDC	5.00 A	DNR240TS48-I
480 W	24.0 VDC	20.00 A	DNR480TS24-I
480 W	48.0 VDC	10.00 A	DNR480TS48-I
960 W	24.0 VDC	40.00 A	DNR960TS24-I
960 W	48.0 VDC	20.00 A	DNR960TS48-I

Dimensions:

DNR120TS: 4.39 x 2.93 x 4.87" (111.3 x 74.3 x 123.6 mm)
DNR240TS: 4.39 x 3.50 x 4.87" (111.3 x 89.0 x 123.6 mm)
DNR480TS: 4.39 x 5.91 x 4.87" (111.3 x 150.0 x 123.6 mm)
DNR960TS: 4.39 x 10.86 x 4.96" (111.3 x 275.7 x 125.9 mm)

8 to 36 Watts

VEP08-36

- Energy Efficiency Level V
- CEC2008 & EISA 2007 Compliant
- IT & Medical (8 to 24 W) Approvals
- Interchangeable Input Connectors
- Outputs from 5 to 24 V
- Class II Construction
- Low Cost
- 2 Year Warranty

Dimensions:

VEP08:
2.83 x 1.67 x 1.06" (72.0 x 42.4 x 26.8 mm)
VEP15:
2.95 x 1.81 x 1.20" (75.0 x 46.0 x 30.5 mm)
VEP24:
3.46 x 1.89 x 1.14" (88.0 x 47.9 x 29.0 mm)
VEP36:
4.02 x 2.40 x 1.42" (102.0 x 61.0 x 36.0 mm)

Power	Output Voltage	Output Current	Model
8.0 W	5.0 VDC	1.60 A	VEP08US05
8.0 W	9.0 VDC	0.88 A	VEP08US09
8.0 W	12.0 VDC	0.66 A	VEP08US12
8.0 W	15.0 VDC	0.53 A	VEP08US15
10.0 W	5.0 VDC	2.00 A	VEP15US05
12.6 W	9.0 VDC	1.40 A	VEP15US09
15.0 W	12.0 VDC	1.25 A	VEP15US12
15.0 W	15.0 VDC	0.90 A	VEP15US15
15.0 W	24.0 VDC	0.63 A	VEP15US24
12.5 W	5.0 VDC	2.50 A	VEP24US05
19.8 W	9.0 VDC	2.20 A	VEP24US09
24.0 W	12.0 VDC	2.00 A	VEP24US12
24.0 W	15.0 VDC	1.60 A	VEP24US15
24.0 W	24.0 VDC	1.00 A	VEP24US24
27.0 W	9.0 VDC	3.00 A	VEP36US09
36.0 W	12.0 VDC	3.00 A	VEP36US12
36.0 W	15.0 VDC	2.40 A	VEP36US15
36.0 W	24.0 VDC	1.50 A	VEP36US24

Notes:
VEP08/VEP15 output cable length is 70.87" (1800 mm)
VEP24 output cable length is 59.00" (1500 mm)
VEP36 output cable length is 35.43-39.37" (900-1000 mm)
output plug ø5.5 x ø2.5 x 11.0 mm, center positive.

30 to 60 Watts

AFM30-60

- Energy Efficiency Level V
- CEC2008 & EISA2007 Compliant
- IT & Medical Approvals
- Optional Class II Versions
- 0 °C to +70 °C Operating Temperature
- Optional IEC320-C6 Inlet
- Optional AC Cable Restraint
- 3 Year Warranty

Dimensions:

AFM30/AFM45:
4.76 x 1.97 x 1.21" (121.0 x 50.0 x 30.8 mm)
AFM60:
4.92 x 2.44 x 1.33" (125.0 x 62.0 x 34.0 mm)

Power	Output Voltage	Output Current	Model
30 W	12.0 VDC	2.50 A	AFM30US12
30 W	15.0 VDC	2.00 A	AFM30US15
30 W	18.0 VDC	1.67 A	AFM30US18
30 W	24.0 VDC	1.25 A	AFM30US24
48 W	12.0 VDC	4.00 A	AFM45US12
48 W	15.0 VDC	3.20 A	AFM45US15
48 W	18.0 VDC	2.67 A	AFM45US18
48 W	24.0 VDC	2.00 A	AFM45US24
60 W	12.0 VDC	5.00 A	AFM60US12
60 W	15.0 VDC	4.00 A	AFM60US15
60 W	18.0 VDC	3.34 A	AFM60US18
60 W	24.0 VDC	2.50 A	AFM60US24

Notes:
Output cable length is 37.4" (950 mm)
Output plug ø5.5 x ø2.5 x 11.0 mm, center positive.
AC cable retraint is for C14 inlet only, add suffix '-A'.
For class II option, add suffix '-C2'.

65 Watts

MCS65

- Rugged Desktop Design
- 65 W - Convection-cooled
- IP67 Ingress Protection
- Operating Temp. Range -40 °C to +70 °C
- MIL-STD EMC
- MIL-STD Shock and Vibration
- <0.5 W No Load Input Power
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
65 W	12.0 VDC	5.40 A	MCS65US12-D9
65 W	15.0 VDC	4.30 A	MCS65US15-D9
65 W	18.5 VDC	3.40 A	MCS65US18-D9
65 W	24.0 VDC	2.70 A	MCS65US24-D9
65 W	28.0 VDC	2.30 A	MCS65US28-D9

Dimensions:

MCS65: 5.50 x 2.75 x 1.65" (139.7 x 69.9 x 41.6 mm)

Notes:
These models are fitted with an integral US style AC plug.
For EU plug, add suffix '-EU'. For UK plug, add suffix '-UK'.
Output cable length is 36.5" (930 mm).
Output connector is female 9 pin D-SUB.

15 to 80 Watts

AEL15-80

- Energy Efficiency Level V
- CEC 2008 and EISA 2007 Compliant
- Outputs from 3.3 to 48 V
- Limited Power Source Approval (AEL15-60)
- China Compulsory Certification Qualified
- +70 °C Operating Temperature
- Compact Dimensions
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
25 W	5.0 VDC	5.00 A	AEL40US05
35 W	8.0 VDC	4.37 A	AEL40US08
35 W	9.0 VDC	3.88 A	AEL40US09
40 W	12.0 VDC	3.33 A	AEL40US12
40 W	15.0 VDC	2.67 A	AEL40US15
40 W	18.0 VDC	2.22 A	AEL40US18
40 W	24.0 VDC	1.67 A	AEL40US24
40 W	36.0 VDC	1.11 A	AEL40US36
40 W	48.0 VDC	0.83 A	AEL40US48

Dimensions:

AEL15: 3.58 x 1.50 x 1.42" (91.1 x 38.0 x 36.0 mm)
AEL20: 3.90 x 1.65 x 1.22" (99.0 x 42.0 x 31.0 mm)
AEL40: 4.65 x 2.05 x 1.36" (118.0 x 52.0 x 34.5 mm)
AEL60: 4.65 x 2.05 x 1.36" (118.0 x 52.0 x 34.5 mm)
AEL80: 5.75 x 2.99 x 1.69" (146.0 x 76.0 x 43.0 mm)

Power	Output Voltage	Output Current	Model
57 W	12.0 VDC	4.75 A	AEL60US12
63 W	15.0 VDC	4.20 A	AEL60US15
63 W	18.0 VDC	3.50 A	AEL60US18
63 W	24.0 VDC	2.63 A	AEL60US24
63 W	30.0 VDC	2.15 A	AEL60US30
63 W	36.0 VDC	1.75 A	AEL60US36
63 W	48.0 VDC	1.31 A	AEL60US48

Power	Output Voltage	Output Current	Model
8 W	3.3 VDC	2.50 A	AEL15US03
12 W	5.0 VDC	2.40 A	AEL15US05
15 W	8.0 VDC	1.87 A	AEL15US08
15 W	9.0 VDC	1.66 A	AEL15US09
15 W	12.0 VDC	1.25 A	AEL15US12
15 W	15.0 VDC	1.00 A	AEL15US15
15 W	18.0 VDC	0.83 A	AEL15US18
15 W	24.0 VDC	0.62 A	AEL15US24
15 W	30.0 VDC	0.50 A	AEL15US30
15 W	36.0 VDC	0.42 A	AEL15US36
15 W	48.0 VDC	0.31 A	AEL15US48

Power	Output Voltage	Output Current	Model
15 W	5.0 VDC	3.00 A	AEL20US05
20 W	12.0 VDC	1.67 A	AEL20US12
20 W	15.0 VDC	1.33 A	AEL20US15
20 W	24.0 VDC	0.83 A	AEL20US24
20 W	30.0 VDC	0.67 A	AEL20US30
20 W	48.0 VDC	0.42 A	AEL20US48

Power	Output Voltage	Output Current	Model
80 W	12.0 VDC	6.66 A	AEL80US12
80 W	15.0 VDC	5.38 A	AEL80US15
80 W	18.0 VDC	4.44 A	AEL80US18
80 W	24.0 VDC	3.33 A	AEL80US24
80 W	30.0 VDC	2.66 A	AEL80US30
80 W	36.0 VDC	2.22 A	AEL80US36
80 W	48.0 VDC	1.66 A	AEL80US48

Notes:
Output cable length is 48" (1220 mm).
Output plug (AEL15-60): ø5.5 x ø2.5 x 11.0 mm, center positive.
Output plug (AEL80): 5 Pin DIN.

36 to 100 Watts

AEB36-100

- CEC2008 & EISA2007 Compliant
- Low Profile
- Outputs from 5 V to 48 V
- High Power Density
- Universal Input
- 0 °C to +60 °C Operating Temperature
- China Compulsory Certification Qualified
- 3 Year Warranty

Dimensions:

AEB36:
4.33 x 1.97 x 0.79" (110.0 x 50.0 x 20.0 mm)
AEB45:
4.72 x 2.05 x 1.22" (120.0 x 52.0 x 31.0 mm)
AEB70:
5.20 x 2.28 x 1.20" (132.0 x 58.0 x 30.5 mm)
AEB100:
5.90 x 2.76 x 1.38" (150.0 x 70.0 x 35.0 mm)

Power	Output Voltage	Output Current	Model
20 W	5.0 VDC	4.00 A	AEB36US05
27 W	9.0 VDC	3.00 A	AEB36US09
30 W	12.0 VDC	2.50 A	AEB36US12
32 W	13.5 VDC	2.40 A	AEB36US13
36 W	15.0 VDC	2.40 A	AEB36US15
36 W	18.0 VDC	2.00 A	AEB36US18
36 W	24.0 VDC	1.50 A	AEB36US24
36 W	48.0 VDC	0.75 A	AEB36US48

Power	Output Voltage	Output Current	Model
45 W	12.0 VDC	3.75 A	AEB45US12
45 W	15.0 VDC	3.00 A	AEB45US15
45 W	18.0 VDC	2.50 A	AEB45US18
45 W	19.0 VDC	2.37 A	AEB45US19
45 W	24.0 VDC	1.88 A	AEB45US24
48 W	48.0 VDC	1.00 A	AEB45US48

Power	Output Voltage	Output Current	Model
66 W	12.0 VDC	5.50 A	AEB70US12
69 W	15.0 VDC	4.60 A	AEB70US15
70 W	18.0 VDC	3.90 A	AEB70US18
72 W	19.0 VDC	3.70 A	AEB70US19
72 W	24.0 VDC	3.00 A	AEB70US24
72 W	48.0 VDC	1.50 A	AEB70US48

Power	Output Voltage	Output Current	Model
100 W	12.0 VDC	8.34 A	AEB100PS12
100 W	12.5 VDC	8.00 A	AEB100PS125
100 W	15.0 VDC	6.67 A	AEB100PS15
100 W	24.0 VDC	4.17 A	AEB100PS24
100 W	48.0 VDC	2.08 A	AEB100PS48

Notes:
Output cable length is 48" (1220 mm)
Output plug: ø5.5 x ø2.5 x 11.0 mm, right angled center positive.
Input connector:
AEB36: IEC320-C8. All other models are IEC320-C14

120 Watts

AFM120

- Energy Efficiency Level V
- CEC2008 & EISA2007 Compliant
- IT & Medical Approvals
- High Efficiency
- 0 °C to +70 °C Operating Temperature
- Optional IEC320-C6 Inlet
- Optional AC Cable Restraint
- 3 Year Warranty

Dimensions:

AFM120:
6.79 x 2.79 x 1.40" (172.5 x 71.0 x 35.5 mm)

Power	Output Voltage	Output Current	Model
100 W	12.0 VDC	8.30 A	AFM120PS12
100 W	15.0 VDC	6.66 A	AFM120PS15
100 W	18.0 VDC	5.55 A	AFM120PS18
120 W	24.0 VDC	5.00 A	AFM120PS24
120 W	48.0 VDC	2.50 A	AFM120PS48

Notes:
Standard AC inlet is IEC320-C14. For alternative IEC320-C6 inlet, add suffix C6 to model number.
Output cable length is 47.2" (1200 mm).
Output plug: ø5.5 x ø2.5 x 11.0 mm, center positive.
For optional AC cable restraint, add suffix '-A'.

220 Watts

AFE220

- Energy Efficiency Level V
- CEC2008 & EISA2007 Compliant
- Outputs from 12 to 48 V
- Compact Dimensions
- Overtemperature Protection
- <0.5 W No Load Input Power
- Low Earth Leakage Current
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
180 W	12.0 VDC	15.00 A	AFE220PS12
220 W	19.0 VDC	11.57 A	AFE220PS19
220 W	24.0 VDC	9.16 A	AFE220PS24
220 W	48.0 VDC	4.58 A	AFE220PS48

Dimensions:

AFE220:
7.76 x 3.46 x 1.73" (197.0 x 88.0 x 44.0 mm)

Notes:
Output cable length is PS12: 37.4" (950 mm)
PS19: 47.2" (1200 mm)
PS24/48: 70.9" (1800 mm).
Output plug: PS12: equivalent to KPPX-4P (non-locking)
PS19-48: 6-way Molex mini-fit.

85 to 250 Watts

AHM85-250

- IT & Medical Approvals
- Energy Efficiency Level V
- CEC2008 & EISA 2007 Compliant
- <0.5 W No Load Input Power
- Class I and Class II Models (Except AHM250)
- High Efficiency - 92% Typical
- IP21 Environmental Rating
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
85 W	12.0 VDC	7.08 A	AHM85PS12
85 W	15.0 VDC	5.67 A	AHM85PS15
85 W	19.0 VDC	4.47 A	AHM85PS19
85 W	24.0 VDC	3.54 A	AHM85PS24
100 W	12.0 VDC	8.33 A	AHM100PS12
100 W	15.0 VDC	6.67 A	AHM100PS15
100 W	19.0 VDC	5.26 A	AHM100PS19
100 W	24.0 VDC	4.16 A	AHM100PS24
100 W	48.0 VDC	2.08 A	AHM100PS48
150 W	12.0 VDC	12.50 A	AHM150PS12
150 W	15.0 VDC	10.00 A	AHM150PS15
150 W	19.0 VDC	7.89 A	AHM150PS19
150 W	24.0 VDC	6.25 A	AHM150PS24
150 W	48.0 VDC	3.13 A	AHM150PS48
165 W	12.0 VDC	13.50 A	AHM180PS12
180 W	15.0 VDC	12.00 A	AHM180PS15
180 W	19.0 VDC	9.47 A	AHM180PS19
180 W	24.0 VDC	7.50 A	AHM180PS24
180 W	48.0 VDC	3.75 A	AHM180PS48
210 W	12.0 VDC	17.50 A	AHM250PS12
220 W	15.0 VDC	14.66 A	AHM250PS15
240 W	19.0 VDC	12.63 A	AHM250PS19
250 W	24.0 VDC	10.41 A	AHM250PS24
250 W	48.0 VDC	5.21 A	AHM250PS48

Dimensions:

AHM85:
5.90 x 2.52 x 1.45" (150.0 x 64.0 x 37.0 mm)
AHM100:
6.29 x 2.52 x 1.45" (160.0 x 64.0 x 37.0 mm)
AHM150:
7.80 x 3.15 x 1.45" (200.0 x 80.0 x 37.0 mm)
AHM180:
7.87 x 3.15 x 1.61" (200.0 x 80.0 x 41.0 mm)
AHM250:
8.80 x 3.45 x 1.46" (223.0 x 88.50 x 37.0 mm)

Notes:
For models with class II, add suffix 'C2' (not AHM250). For optional IEC320-C8 input connector with class II models add suffix '-8' to the model number. For optional input cable retention clip, add suffix '-A' to the model number.
Output cable length: 35.43" (900 mm) approx.
Output plug: equivalent to KPPX-4P (non-locking).

Industry Brochures Available

XP Power has published a series of in-depth industry focused literature which look at how XP products can provide power solutions for specific requirements unique to each sector. All literature is available upon request by calling our sales office or emailing.

0.25 Watts

IK

- Single Output
- ±10% Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Small Package Sizes
- -40 °C to +85 °C Operation
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
0.25 W	3.3 VDC	75.70 mA	IKxx03SA
0.25 W	5.0 VDC	50.00 mA	IKxx05SA
0.25 W	7.2 VDC	34.72 mA	IKxx07SA
0.25 W	9.0 VDC	27.77 mA	IKxx09SA
0.25 W	12.0 VDC	20.83 mA	IKxx12SA
0.25 W	15.0 VDC	16.67 mA	IKxx15SA
0.25 W	18.0 VDC	13.88 mA	IKxx18SA
0.25 W	24.0 VDC	10.41 mA	IKxx24SA

Dimensions:

SIP: 0.46 x 0.24 x 0.40" (11.7 x 6.1 x 10.2 mm)
DIP: 0.50 x 0.40 x 0.27" (12.7 x 10.1 x 6.9 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IK0503SA
12 V replace xx with 12 eg. IK1203SA
24 V replace xx with 24 eg. IK2403SA
48 V replace xx with 48 eg. IK4803SA
For DIP package replace 'S' in model number with 'D'.

0.5 to 1 Amps

SR

- 3 Pin SIP 3T Switching Regulator
- Wide Input Range
- Continuous Short-circuit Protection
- Pin Compatible with LM78MXX
- High Efficiency - up to 97%
- Outputs From 1.5 to 15 V
- -40 °C to +85 °C Operating Temperature
- 3 Year Warranty

Input Voltage	Output Voltage	Output Current	Model
4.75-34 VDC	1.5 VDC	500 mA	SR05S1V5
4.75-34 VDC	1.8 VDC	500 mA	SR05S1V8
4.75-34 VDC	2.5 VDC	500 mA	SR05S2V5
4.75-34 VDC	3.3 VDC	500 mA	SR05S3V3
6.50-34 VDC	5.0 VDC	500 mA	SR05S05
8.00-34 VDC	6.5 VDC	500 mA	SR05S6V5
9.00-34 VDC	7.2 VDC	500 mA	SR05S7V2
11.00-34 VDC	9.0 VDC	500 mA	SR05S09
15.00-34 VDC	12.0 VDC	500 mA	SR05S12
18.00-34 VDC	15.0 VDC	500 mA	SR05S15
4.75-18 VDC	1.5 VDC	1000 mA	SR10S1V5
4.75-18 VDC	1.8 VDC	1000 mA	SR10S1V8
4.75-18 VDC	2.5 VDC	1000 mA	SR10S2V5
4.75-18 VDC	3.3 VDC	1000 mA	SR10S3V3
6.50-18 VDC	5.0 VDC	1000 mA	SR10S05

Dimensions:

SR: 0.46 x 0.29 x 0.40" (11.7 x 7.5 x 10.2 mm)

0.5 Amps

TR

- 3 Pin SIP 3T Switching Regulator
- Wide Input Range
- Continuous Short-circuit Protection
- Pin Compatible with LM78MXX
- High Efficiency - up to 94%
- Low Cost Design
- -40 °C to +85 °C Operating Temperature
- 3 Year Warranty

Input Voltage	Output Voltage	Output Current	Model
4.5-28.0 VDC	3.3 VDC	500 mA	TR05S3V3
7.0-28.0 VDC	5.0 VDC	500 mA	TR05S05
14.0-28.0 VDC	12.0 VDC	500 mA	TR05S12
17.0-28.0 VDC	15.0 VDC	500 mA	TR05S15

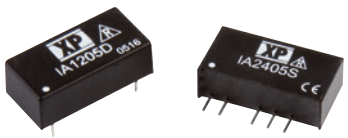
Dimensions:

TR: 0.46 x 0.29 x 0.40" (11.7 x 7.5 x 10.2 mm)

1 Watt

IA

- Dual Output
- ±10% Input Range
- SIP or DIP Package
- Industry Standard Pinout
- 1000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 MHrs
- 3 Year Warranty



Power	Output Voltage	Output Current	Model
1 W	±5.0 VDC	±100 mA	IA0305S
1 W	±3.3 VDC	±151 mA	IAxx03S
1 W	±5.0 VDC	±100 mA	IAxx05S
1 W	±9.0 VDC	±55 mA	IAxx09S
1 W	±12.0 VDC	±42 mA	IAxx12S
1 W	±15.0 VDC	±33 mA	IAxx15S
1 W	±24.0 VDC	±21 mA	IAxx24S

Dimensions:

SIP: 0.76 x 0.24 x 0.40" (19.3 x 6.1 x 10.2 mm)
DIP: 0.80 x 0.40 x 0.25" (20.3 x 10.2 x 6.35 mm)

Notes:
IA0305S has an input voltage of 3.3 VDC.
For input range: 5 V replace xx with 05 eg. IA0503S
12 V replace xx with 12 eg. IA1203S
24 V replace xx with 24 eg. IA2403S
48 V replace xx with 48 eg. IA4803S
For DIP package replace 'S' in model number with 'D'.

1 Watt

IB

- Single Output
- ±10% Input Range
- SIP or DIP Package
- Industry Standard Pinout
- 1000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 MHrs
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
1 W	3.3 VDC	303 mA	IBxx03S
1 W	5.0 VDC	200 mA	IBxx05S
1 W	9.0 VDC	111 mA	IBxx09S
1 W	12.0 VDC	84 mA	IBxx12S
1 W	15.0 VDC	66 mA	IBxx15S
1 W	24.0 VDC	42 mA	IBxx24S

Dimensions:

SIP: 0.76 x 0.24 x 0.40" (19.3 x 6.1 x 10.2 mm)
DIP: 0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.8 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IB0503S
12 V replace xx with 12 eg. IB1203S
24 V replace xx with 24 eg. IB2403S
48 V replace xx with 48 eg. IB4803S
For DIP package replace 'S' in model number with 'D'.

1 Watt

IC

- Single Output
- ±10% Input Range
- Ultra Slim DIP Package
- Industry Standard Pinout
- 1500 VDC Isolation
- MTBF >3.5 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Input Voltage	Power	Output Voltage	Output Current	Model
5.0 VDC	1 W	5.0 VDC	200 mA	IC0505DA
5.0 VDC	1 W	12.0 VDC	83 mA	IC0512DA
5.0 VDC	1 W	15.0 VDC	67 mA	IC0515DA
12.0 VDC	1 W	5.0 VDC	200 mA	IC1205DA

Dimensions:

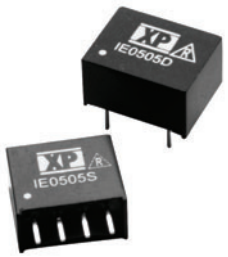
IC: 0.77 x 0.30 x 0.17" (19.5 x 7.6 x 4.5 mm)

Notes:
For 3000 VDC isolation, add suffix '-H'.

1 Watt

IE

- Single Output
- ±10% Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Small Package Sizes
- -40 °C to +85 °C Operation
- 3 Year Warranty



Power	Output Voltage	Output Current	Model
1 W	3.3 VDC	300 mA	IExx03S
1 W	5.0 VDC	200 mA	IExx05S
1 W	9.0 VDC	111 mA	IExx09S
1 W	12.0 VDC	84 mA	IExx12S
1 W	15.0 VDC	66 mA	IExx15S
1 W	24.0 VDC	42 mA	IExx24S

Dimensions:

SIP: 0.46 x 0.24 x 0.40" (11.7 x 6.1 x 10.2 mm)
DIP: 0.50 x 0.40 x 0.27" (12.7 x 10.1 x 6.9 mm)

Notes:
For input range: 3.3 V replace xx with 03 eg. IE0303SA
5 V replace xx with 05 eg. IE0503SA
12 V replace xx with 12 eg. IE1203SA
24 V replace xx with 24 eg. IE2403SA
For DIP package replace 'S' in model number with 'D'.
For 3000 VDC isolation, add suffix '-H'.

1 Watt

IF

- Regulated Single Output
- ±10% Input Range
- SIP or DIP Package
- Low Ripple & Noise
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- MTBF 4.2 MHrs
- 3 Year Warranty

Power	Voltage		Output Current	Model
	Input	Output		
1 W	5.0 VDC	3.3 VDC	333 mA	IF0503S
1 W	5.0 VDC	5.0 VDC	200 mA	IF0505S
1 W	5.0 VDC	9.0 VDC	111 mA	IF0509S
1 W	5.0 VDC	12.0 VDC	84 mA	IF0512S
1 W	5.0 VDC	15.0 VDC	67 mA	IF0515S
1 W	12.0 VDC	3.3 VDC	333 mA	IF1203S
1 W	12.0 VDC	5.0 VDC	200 mA	IF1205S
1 W	12.0 VDC	9.0 VDC	111 mA	IF1209S
1 W	12.0 VDC	12.0 VDC	84 mA	IF1212S
1 W	12.0 VDC	15.0 VDC	67 mA	IF1215S
1 W	24.0 VDC	3.3 VDC	333 mA	IF2403S
1 W	24.0 VDC	5.0 VDC	200 mA	IF2405S
1 W	24.0 VDC	9.0 VDC	111 mA	IF2409S
1 W	24.0 VDC	12.0 VDC	84 mA	IF2412S
1 W	24.0 VDC	15.0 VDC	67 mA	IF2415S

Dimensions:

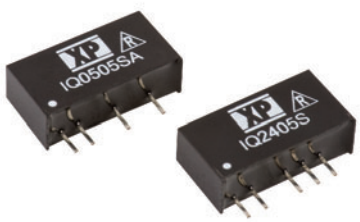
SIP: 0.76 x 0.28 x 0.39" (19.5 x 7.2 x 10.0 mm)
DIP: 0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.9 mm)

Notes:
For DIP package replace 'S' in model number with 'D'.
For 3000 VDC isolation, add suffix '-H'.

1 Watt

IQ

- Single & Dual Output
- ±10% Input Range
- SIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- -40 °C to +85 °C Operation
- Semi-regulated
- 3 Year Warranty



Power	Output Voltage	Output Current	Model
1 W	5.0 VDC	200 mA	IQxx05SA
1 W	9.0 VDC	111 mA	IQxx09SA
1 W	12.0 VDC	83 mA	IQxx12SA
1 W	15.0 VDC	67 mA	IQxx15SA

Dimensions:

IQ: 0.76 x 0.24 x 0.39" (19.5 x 6.0 x 10.0 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IQ0505SA
12 V replace xx with 12 eg. IQ1205SA
15 V replace xx with 15 eg. IQ1505SA
24 V replace xx with 24 eg. IQ2405SA
48 V replace xx with 48 eg. IQ4805SA
For dual output, delete suffix 'A' and split output current equally.
For 3000 VDC isolation, add suffix '-H'.

1 Watt

ISF

- Single & Dual Output
- SMD Package
- ±10% Input Range
- Industry Standard Pinout
- 1000 VDC Isolation, 3000 VDC Optional
- MTBF >3.5 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Dimensions:

Single: 0.50 x 0.44 x 0.24" (12.7 x 11.2 x 6.3 mm)
Dual/- H: 0.60 x 0.44 x 0.25" (15.3 x 11.2 x 6.5 mm)

Notes:
For 3000 VDC isolation, add suffix '-H'. Alternative pinout available.
For dual output, delete suffix 'A' and split output current equally between rails.

Power	Voltage		Output Current	Model
	Input	Output		
1 W	3.3 VDC	3.3 VDC	300 mA	ISF0303A
1 W	3.3 VDC	5.0 VDC	200 mA	ISF0305A
1 W	5.0 VDC	3.3 VDC	300 mA	ISF0503A
1 W	5.0 VDC	5.0 VDC	200 mA	ISF0505A
1 W	5.0 VDC	9.0 VDC	110 mA	ISF0509A
1 W	5.0 VDC	12.0 VDC	84 mA	ISF0512A
1 W	5.0 VDC	15.0 VDC	67 mA	ISF0515A
1 W	12.0 VDC	5.0 VDC	200 mA	ISF1205A
1 W	12.0 VDC	9.0 VDC	110 mA	ISF1209A
1 W	12.0 VDC	12.0 VDC	84 mA	ISF1212A
1 W	12.0 VDC	15.0 VDC	67 mA	ISF1215A
1 W	24.0 VDC	3.3 VDC	300 mA	ISF2403A
1 W	24.0 VDC	5.0 VDC	200 mA	ISF2405A
1 W	24.0 VDC	9.0 VDC	110 mA	ISF2409A
1 W	24.0 VDC	12.0 VDC	84 mA	ISF2412A
1 W	24.0 VDC	15.0 VDC	67 mA	ISF2415A
1 W	24.0 VDC	24.0 VDC	42 mA	ISF2424A

1 Watt

ISG

- Regulated Single Output
- SMD Package
- ±5% Input Range
- Industry Standard Pinout
- 1000 VDC Isolation
- Short Circuit Protection
- MTBF >3.5 MHrs
- 3 Year Warranty

Dimensions:

ISG: 0.60 x 0.44 x 0.25" (15.2 x 11.2 x 6.5 mm)

Notes:
Alternative pinout available.

Power	Voltage		Output Current	Model
	Input	Output		
1 W	5.0 VDC	5.0 VDC	150 mA	ISG0505A
1 W	5.0 VDC	12.0 VDC	83 mA	ISG0512A
1 W	5.0 VDC	15.0 VDC	67 mA	ISG0515A
1 W	12.0 VDC	5.0 VDC	150 mA	ISG1205A
1 W	12.0 VDC	12.0 VDC	83 mA	ISG1212A
1 W	12.0 VDC	15.0 VDC	67 mA	ISG1215A

1 Watt

ISJ

- Single Output
- Ultra Slim SMD Package
- ±10% Input Range
- Industry Standard Pinout
- 1500 VDC Isolation
- MTBF >3.5 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Dimensions:

ISJ: 0.76 x 0.42 x 0.19" (19.5 x10.5 x 5.0 mm)

Notes:
For 3000 VDC isolation, add suffix '-H'.

Power	Voltage		Output Current	Model
	Input	Output		
1 W	5.0 VDC	5.0 VDC	200 mA	ISJ0505A
1 W	5.0 VDC	12.0 VDC	83 mA	ISJ0512A
1 W	5.0 VDC	15.0 VDC	67 mA	ISJ0515A
1 W	12.0 VDC	5.0 VDC	200 mA	ISJ1205A

1 Watt

IV

- Single & Dual Output
- ±10% Input Range
- SIP or DIP Package
- 3000 VDC Isolation
- Optional 4000 & 6000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >1.1 MHrs
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
1 W	3.3 VDC	300 mA	IVxx03SA
1 W	5.0 VDC	200 mA	IVxx05SA
1 W	9.0 VDC	112 mA	IVxx09SA
1 W	12.0 VDC	84 mA	IVxx12SA
1 W	15.0 VDC	66 mA	IVxx15SA
1 W	24.0 VDC	42 mA	IVxx24SA

Dimensions:

SIP: 0.76 x 0.24 x 0.37" (19.5 x 6.0 x 9.5 mm)
DIP: 0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.9 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IV0503SA
12 V replace xx with 12 eg. IV1203SA
24 V replace xx with 24 eg. IV2403SA
48 V replace xx with 48 eg. IV4803SA
For DIP package replace 'S' in model number with 'D'. For dual output, delete suffix 'A' and split output current equally between rails. For 4000 VDC isolation, add suffix '-H4'. For 6000 VDC isolation, add suffix '-H6'.

1 Watt

IW

- Regulated Single & Dual Output
- 2:1 Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Continuous Short Circuit Protection
- Optional Metal Case
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
1 W	3.3 VDC	303 mA	IWxx03SA
1 W	5.0 VDC	200 mA	IWxx05SA
1 W	9.0 VDC	111 mA	IWxx09SA
1 W	12.0 VDC	83 mA	IWxx12SA
1 W	15.0 VDC	67 mA	IWxx15SA
1 W	24.0 VDC	42 mA	IWxx24SA

Dimensions:

SIP: 0.86 x 0.36 x 0.44" (21.9 x 9.2 x 11.1 mm)
DIP: 0.92 x 0.55 x 0.40" (23.4 x 14.0 x 10.2 mm)

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. IW0503SA
9.0-18.0 V replace xx with 12 eg. IW1203SA
18.0-36.0 V replace xx with 24 eg. IW2403SA
36.0-72.0 V replace xx with 48 eg. IW4803SA
For DIP package replace 'S' in model number with 'D'. For dual output, delete suffix 'A' and split output current equally between rails. For 3000 VDC isolation, add suffix '-H'. For remote on/off on SIP models, add suffix '-R'. For optional metal case, add suffix '-M'.

1.5 Watts

ISL

- Regulated Single & Dual Output
- 4:1 Input Range
- SMD Package
- Outputs from 3.3 to 15 V
- Industry Standard Pinout
- 1500 VDC Isolation
- Short Circuit Protection
- 3 Year Warranty

Power	Voltage		Output Current	Model
	Input	Output		
1.5 W	24.0 VDC	3.3 VDC	455 mA	ISL2403A
1.5 W	24.0 VDC	5.0 VDC	300 mA	ISL2405A
1.5 W	24.0 VDC	9.0 VDC	167 mA	ISL2409A
1.5 W	24.0 VDC	12.0 VDC	125 mA	ISL2412A
1.5 W	24.0 VDC	15.0 VDC	100 mA	ISL2415A
1.5 W	24.0 VDC	±5.0 VDC	±150 mA	ISL2405
1.5 W	24.0 VDC	±12.0 VDC	±63 mA	ISL2412
1.5 W	24.0 VDC	±15.0 VDC	±50 mA	ISL2415
1.5 W	48.0 VDC	3.3 VDC	455 mA	ISL4803A
1.5 W	48.0 VDC	5.0 VDC	300 mA	ISL4805A
1.5 W	48.0 VDC	9.0 VDC	167 mA	ISL4809A
1.5 W	48.0 VDC	12.0 VDC	125 mA	ISL4812A
1.5 W	48.0 VDC	15.0 VDC	100 mA	ISL4815A
1.5 W	48.0 VDC	±5.0 VDC	±150 mA	ISL4805
1.5 W	48.0 VDC	±12.0 VDC	±63 mA	ISL4812
1.5 W	48.0 VDC	±15.0 VDC	±50 mA	ISL4815

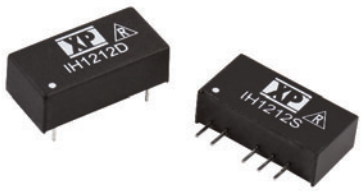
Dimensions:

ISL: 0.94 x 0.71 x 0.31" (23.9 x18.1 x 8.0 mm)

2 Watts

IH

- Dual Output
- ±10% Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000-6000 VDC Isolation
- MTBF >1.1 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty



Power	Output Voltage	Output Current	Model
2 W	±3.3 VDC	±200 mA	IHxx03S
2 W	±5.0 VDC	±200 mA	IHxx05S
2 W	±9.0 VDC	±111 mA	IHxx09S
2 W	±12.0 VDC	±84 mA	IHxx12S
2 W	±15.0 VDC	±66 mA	IHxx15S
2 W	±24.0 VDC	±42 mA	IHxx24S

Dimensions:

SIP: 0.76 x 0.28 x 0.40" (19.5 x 7.2 x 10.2 mm)
DIP: 0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.8 mm)
(-H) SIP: 0.76 x 0.30 x 0.40" (19.5 x 7.6 x 10.2 mm)
(-H) DIP: 0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.8 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IH0503S
12 V replace xx with 12 eg. IH1203S
24 V replace xx with 24 eg. IH2403S
48 V replace xx with 48 eg. IH4803S
For DIP package replace 'S' in model number with 'D'.
For 3000 VDC isolation, add suffix '-H'. For 4000 VDC isolation, add suffix '-H4'. For 5000 VDC isolation, add suffix '-H5'. For 6000 VDC isolation, add suffix '-H6'.

2 Watts

IL

- Single Output
- ±10% Input Range
- SIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- MTBF >1.2 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
2 W	3.3 VDC	400 mA	ILxx03S
2 W	5.0 VDC	400 mA	ILxx05S
2 W	9.0 VDC	222 mA	ILxx09S
2 W	12.0 VDC	168 mA	ILxx12S
2 W	15.0 VDC	132 mA	ILxx15S
2 W	24.0 VDC	84 mA	ILxx24S

Dimensions:

IL: 0.46 x 0.29 x 0.40" (11.70 x 7.50 x 10.16 mm)

Notes:
For input range: 5 V replace xx with 05 eg. IL0503S
12 V replace xx with 12 eg. IL1203S
24 V replace xx with 24 eg. IL2403S
48 V replace xx with 48 eg. IL4803S
For 3000 VDC isolation, add suffix '-H'.

2 Watts

IM

- Regulated Single & Dual Output
- Wide 4:1 Input Range
- SIP Package
- Outputs From 3.3 to 15 V
- 1500 VDC Isolation
- Remote On/Off
- Continuous Short Circuit Protection
- 3 Year Warranty

Power	Voltage		Output Current	Model
	Input	Output		
2 W	9.0 - 36.0 VDC	3.3 VDC	500 mA	IM2403SA
2 W	9.0 - 36.0 VDC	5.0 VDC	400 mA	IM2405SA
2 W	9.0 - 36.0 VDC	12.0 VDC	165 mA	IM2412SA
2 W	9.0 - 36.0 VDC	15.0 VDC	135 mA	IM2415SA
2 W	9.0 - 36.0 VDC	±5.0 VDC	±200 mA	IM2405S
2 W	9.0 - 36.0 VDC	±12.0 VDC	±85 mA	IM2412S
2 W	9.0 - 36.0 VDC	±15.0 VDC	±65 mA	IM2415S
2 W	18.0 - 75.0 VDC	3.3 VDC	500 mA	IM4803SA
2 W	18.0 - 75.0 VDC	5.0 VDC	400 mA	IM4805SA
2 W	18.0 - 75.0 VDC	12.0 VDC	165 mA	IM4812SA
2 W	18.0 - 75.0 VDC	15.0 VDC	135 mA	IM4815SA
2 W	18.0 - 75.0 VDC	±5.0 VDC	±200 mA	IM4805S
2 W	18.0 - 75.0 VDC	±12.0 VDC	±85 mA	IM4812S
2 W	18.0 - 75.0 VDC	±15.0 VDC	±65 mA	IM4815S

Dimensions:

IM: 1.02 x 0.36 x 0.49" (26.0 x 9.2 x 12.5 mm)

2 Watts

ISP

- Single & Dual Regulated Outputs
- 2:1 Input Range
- SMD Package
- Industry Standard Pinout
- 1500 VDC Isolation
- -40 °C to +85 °C Operation
- Outputs from 3.3 to 15 V
- 3 Year Warranty

Dimensions:

ISP: 0.94 x 0.71 x 0.31" (23.9 x 18.1 x 8.0 mm)

Power	Voltage		Output Current	Model
	Input	Output		
2 W	12.0 VDC	3.3 VDC	500 mA	ISP1203A
2 W	12.0 VDC	5.0 VDC	400 mA	ISP1205A
2 W	12.0 VDC	9.0 VDC	222 mA	ISP1209A
2 W	12.0 VDC	12.0 VDC	167 mA	ISP1212A
2 W	12.0 VDC	15.0 VDC	133 mA	ISP1215A
2 W	12.0 VDC	±5.0 VDC	±200 mA	ISP1205
2 W	12.0 VDC	±12.0 VDC	±83 mA	ISP1212
2 W	12.0 VDC	±15.0 VDC	±67 mA	ISP1215
2 W	24.0 VDC	3.3 VDC	500 mA	ISP2403A
2 W	24.0 VDC	5.0 VDC	400 mA	ISP2405A
2 W	24.0 VDC	9.0 VDC	222 mA	ISP2409A
2 W	24.0 VDC	12.0 VDC	167 mA	ISP2412A
2 W	24.0 VDC	15.0 VDC	133 mA	ISP2415A
2 W	24.0 VDC	±5.0 VDC	±200 mA	ISP2405
2 W	24.0 VDC	±12.0 VDC	±83 mA	ISP2412
2 W	24.0 VDC	±15.0 VDC	±67 mA	ISP2415

2 Watts

ISQ

- Single Output
- SMD Package
- ±10% Input Range
- Industry Standard Pinout
- 6000 VDC Isolation
- -40 °C to +85 °C Operation
- MTBF >3.5 MHrs
- 3 Year Warranty

Dimensions:

ISQ: 0.94 x 0.71 x 0.31" (23.9 x 18.1 x 8.0 mm)

Power	Voltage		Output Current	Model
	Input	Output		
2 W	5.0 VDC	5.0 VDC	400 mA	ISQ0505A
2 W	5.0 VDC	12.0 VDC	167 mA	ISQ0512A
2 W	5.0 VDC	15.0 VDC	133 mA	ISQ0515A
2 W	12.0 VDC	5.0 VDC	400 mA	ISQ1205A
2 W	12.0 VDC	12.0 VDC	167 mA	ISQ1212A
2 W	12.0 VDC	15.0 VDC	133 mA	ISQ1215A
2 W	24.0 VDC	5.0 VDC	400 mA	ISQ2405A
2 W	24.0 VDC	12.0 VDC	167 mA	ISQ2412A
2 W	24.0 VDC	15.0 VDC	133 mA	ISQ2415A

2 Watts

IST

- Single Output
- SMD Package
- ±10% Input Range
- Industry Standard Pinout
- 1000 VDC Isolation
- MTBF >3.5 MHrs
- -40 °C to +85 °C Operation
- 3 Year Warranty

Dimensions:

IST: 0.50 x 0.44 x 0.25" (12.7 x 11.2 x 6.3 mm)

Power	Voltage		Output Current	Model
	Input	Output		
2 W	5.0 VDC	5.0 VDC	400 mA	IST0505A
2 W	5.0 VDC	12.0 VDC	167 mA	IST0512A
2 W	5.0 VDC	15.0 VDC	133 mA	IST0515A
2 W	12.0 VDC	5.0 VDC	400 mA	IST1205A
2 W	12.0 VDC	12.0 VDC	167 mA	IST1212A
2 W	12.0 VDC	15.0 VDC	133 mA	IST1215A
2 W	24.0 VDC	5.0 VDC	400 mA	IST2405A
2 W	24.0 VDC	12.0 VDC	167 mA	IST2412A
2 W	24.0 VDC	15.0 VDC	133 mA	IST2415A

Notes:
Alternative pinout available.

2 Watts

IU

- Regulated Single & Dual Output
- 2:1 Input Range
- SIP or DIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Optional Metal Case
- Continuous Short Circuit Protection
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
2 W	3.3 VDC	500 mA	IUxx03SA
2 W	5.0 VDC	400 mA	IUxx05SA
2 W	9.0 VDC	222 mA	IUxx09SA
2 W	12.0 VDC	167 mA	IUxx12SA
2 W	15.0 VDC	133 mA	IUxx15SA
2 W	24.0 VDC	83 mA	IUxx24SA

Dimensions:

SIP: 0.86 x 0.36 x 0.44" (21.9 x 9.2 x 11.1 mm)
DIP: 0.92 x 0.55 x 0.40" (23.4 x 14.0 x 10.2 mm)

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. IU0503SA
9.0-18.0 V replace xx with 12 eg. IU1203SA
18.0-36.0 V replace xx with 24 eg. IU2403SA
36.0-72.0 V replace xx with 48 eg. IU4803SA
For DIP package replace 'S' in model number with 'D'.
For dual output, delete suffix 'A' and split output current equally between rails. For 3000 VDC isolation, add suffix '-H'. For metal case, add suffix '-M'. For remote on/off on SIP models, add suffix '-R'.

3 Watts

IP

- Regulated Single & Dual Output
- 4:1 Input Range
- SIP Package
- Outputs from 3.3 to 15 V
- 1600 VDC Isolation
- -40 °C to 85 °C Operation
- Remote On/Off
- 3 Year Warranty

Power	Output Voltage	Output Current	Model
3 W	3.3 VDC	700 mA	IPxx03SA
3 W	5.0 VDC	600 mA	IPxx05SA
3 W	12.0 VDC	250 mA	IPxx12SA
3 W	15.0 VDC	200 mA	IPxx15SA
3 W	±5.0 VDC	±300 mA	IPxx05S
3 W	±12.0 VDC	±125 mA	IPxx12S
3 W	±15.0 VDC	±100 mA	IPxx15S

Dimensions:

IP: 0.86 x 0.36 x 0.44" (21.9 x 9.2 x 11.1 mm)

Notes:
For input range: 4.5-18.0 V replace xx with 12 eg. IP1203SA
9.0-36.0 V replace xx with 24 eg. IP2403SA
18.0-75.0 V replace xx with 48 eg. IP4803SA

3 Watts

IR

- Single & Dual Output
- ±10% Input Range
- SIP Package
- Semi-regulated
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- -40 °C to +85 °C Operation
- 3 Year Warranty

Power	Voltage		Output Current	Model
	Input	Output		
3 W	5.0 VDC	5.0 VDC	600 mA	IR0505SA
3 W	5.0 VDC	9.0 VDC	333 mA	IR0509SA
3 W	5.0 VDC	12.0 VDC	250 mA	IR0512SA
3 W	5.0 VDC	15.0 VDC	200 mA	IR0515SA
3 W	5.0 VDC	±5.0 VDC	±300 mA	IR0505S
3 W	5.0 VDC	±9.0 VDC	±167 mA	IR0509S
3 W	5.0 VDC	±12.0 VDC	±125 mA	IR0512S
3 W	5.0 VDC	±15.0 VDC	±100 mA	IR0515S
3 W	12.0 VDC	5.0 VDC	600 mA	IR1205SA
3 W	12.0 VDC	9.0 VDC	333 mA	IR1209SA
3 W	12.0 VDC	12.0 VDC	250 mA	IR1212SA
3 W	12.0 VDC	15.0 VDC	200 mA	IR1215SA
3 W	12.0 VDC	±5.0 VDC	±300 mA	IR1205S
3 W	12.0 VDC	±9.0 VDC	±167 mA	IR1209S
3 W	12.0 VDC	±12.0 VDC	±125 mA	IR1212S
3 W	12.0 VDC	±15.0 VDC	±100 mA	IR1215S

Dimensions:

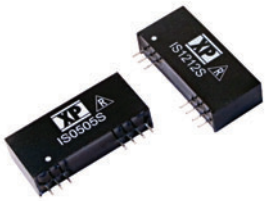
IR: 0.76 x 0.28 x 0.39" (19.50 x 7.2 x 10.0 mm)

Notes:
For 3000 VDC isolation, add suffix '-H'.

3 Watts

IS

- Regulated Single Output
- ±10% Input Range
- SIP Package
- 1000 VDC Isolation
- Optional 3000 VDC Isolation
- Continuous Short Circuit Protection
- MTBF >1.1 MHrs
- 3 Year Warranty



Dimensions:

IS: 1.26 x 0.32 x 0.57" (32.0 x 8.0 x 14.5 mm)

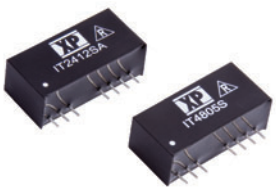
Power	Output Voltage	Output Current	Model
3 W	3.3 VDC	600 mA	ISxx03SA
3 W	5.0 VDC	600 mA	ISxx05SA
3 W	9.0 VDC	333 mA	ISxx09SA
3 W	12.0 VDC	250 mA	ISxx12SA
3 W	15.0 VDC	200 mA	ISxx15SA
3 W	24.0 VDC	125 mA	ISxx24SA

Notes:
For input range: 5 V replace xx with 05 eg. IS0503SA
12 V replace xx with 12 eg. IS1203SA
24 V replace xx with 24 eg. IS2403SA
For 3000 VDC isolation, add suffix '-H'.

3 Watts

IT

- Regulated Single & Dual Output
- 4:1 Input Range
- SIP Package
- Outputs From 3.3 to 15 V
- 1500 VDC Isolation
- -40 °C to 100 °C Operation
- Remote On/Off
- 3 Year Warranty



Dimensions:

IT: 1.02 x 0.36 x 0.49" (26.0 x 9.2 x 12.5 mm)

Power	Output Voltage		Output Current	Model
	Input	Output		
3 W	9.0 - 36.0 VDC	3.3 VDC	700 mA	IT2403SA
3 W	9.0 - 36.0 VDC	5.0 VDC	600 mA	IT2405SA
3 W	9.0 - 36.0 VDC	12.0 VDC	250 mA	IT2412SA
3 W	9.0 - 36.0 VDC	15.0 VDC	200 mA	IT2415SA
3 W	9.0 - 36.0 VDC	±5.0 VDC	±300 mA	IT2405S
3 W	9.0 - 36.0 VDC	±12.0 VDC	±125 mA	IT2412S
3 W	9.0 - 36.0 VDC	±15.0 VDC	±100 mA	IT2415S
3 W	18.0 - 75.0 VDC	3.3 VDC	700 mA	IT4803SA
3 W	18.0 - 75.0 VDC	5.0 VDC	600 mA	IT4805SA
3 W	18.0 - 75.0 VDC	12.0 VDC	250 mA	IT4812SA
3 W	18.0 - 75.0 VDC	15.0 VDC	200 mA	IT4815SA
3 W	18.0 - 75.0 VDC	±5.0 VDC	±300 mA	IT4805S
3 W	18.0 - 75.0 VDC	±12.0 VDC	±125 mA	IT4812S
3 W	18.0 - 75.0 VDC	±15.0 VDC	±100 mA	IT4815S

3 Watts

IZ

- Regulated Single & Dual Output
- 2:1 Input Range
- SIP Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- Remote On/Off
- Optional Metal Case
- 3 Year Warranty

Dimensions:

IZ: 0.86 x 0.36 x 0.44" (21.9 x 9.2 x 11.2 mm)

Power	Output Voltage	Output Current	Model
3 W	3.3 VDC	700 mA	IZxx03SA
3 W	5.0 VDC	600 mA	IZxx05SA
3 W	12.0 VDC	250 mA	IZxx12SA
3 W	15.0 VDC	200 mA	IZxx15SA
3 W	±5.0 VDC	±300 mA	IZxx05S
3 W	±12.0 VDC	±125 mA	IZxx12S
3 W	±15.0 VDC	±100 mA	IZxx15S

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. IZ0503SA
9.0-18.0 V replace xx with 12 eg. IZ1203SA
18.0-36.0 V replace xx with 24 eg. IZ2403SA
36.0-72.0 V replace xx with 48 eg. IZ4803SA
For optional metal case, add suffix '-M'.

2 Watts

JAH02

- Low Cost
- ±10% Input Range
- DIP-24 Package
- Operating Temperature -40 °C to +100 °C
- Single & Dual Output
- Optional Metal Case
- Optional Isolation to 6000 VDC
- 3 Year Warranty

Dimensions:

JAH02: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
1.6 W	3.3 VDC	500 mA	JAH02xxS3V3
2 W	5.0 VDC	400 mA	JAH02xxS05
2 W	9.0 VDC	222 mA	JAH02xxS09
2 W	12.0 VDC	166 mA	JAH02xxS12
2 W	15.0 VDC	133 mA	JAH02xxS15
2 W	24.0 VDC	83 mA	JAH02xxS24
2 W	±3.3 VDC	±300 mA	JAH02xxD03
2 W	±5.0 VDC	±200 mA	JAH02xxD05
2 W	±9.0 VDC	±111 mA	JAH02xxD09
2 W	±12.0 VDC	±83 mA	JAH02xxD12
2 W	±15.0 VDC	±67 mA	JAH02xxD15
2 W	±24.0 VDC	±42 mA	JAH02xxD24

Notes:
For input range: 5 V replace xx with 05 eg. JAH0205S05
12 V replace xx with 12 eg. JAH0212S05
24 V replace xx with 24 eg. JAH0224S05
For 3000 VDC isolation, add suffix '-H'. For 4000 VDC isolation, add suffix '-H4'. For 5000 VDC isolation, add suffix '-H5'. For 6000 VDC isolation, add suffix '-H6'. For optional metal case with 3000 VDC isolation, add suffix '-M'.

3 Watts

JCB03

- 2:1 Input Range
- Single & Dual Output
- Outputs From 5 to 24 V
- Operating Temperature -40 °C to +100 °C
- 1500 VDC Isolation
- Optional Isolation to 3000 VDC
- Optional Metal Case
- 3 Year Warranty

Dimensions:

JCB03: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
3 W	5.0 VDC	600 mA	JCB03xxS05
3 W	9.0 VDC	333 mA	JCB03xxS09
3 W	12.0 VDC	250 mA	JCB03xxS12
3 W	15.0 VDC	200 mA	JCB03xxS15
3 W	24.0 VDC	125 mA	JCB03xxS24
3 W	±5.0 VDC	±300 mA	JCB03xxD05
3 W	±9.0 VDC	±167 mA	JCB03xxD09
3 W	±12.0 VDC	±125mA	JCB03xxD12
3 W	±15.0 VDC	±100 mA	JCB03xxD15
3 W	±24.0 VDC	±63 mA	JCB03xxD24

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JCB0305S05
9.0-18.0 V replace xx with 12 eg. JCB0312S05
18.0-36.0 V replace xx with 24 eg. JCB0324S05
36.0-72.0 V replace xx with 48 eg. JCB0348S05
For 3000 VDC isolation, add suffix '-H'. For optional metal case, add suffix '-M'. Alternative pinout available.

4 Watts

JCD04

- 2:1 Input Range
- Single & Dual Output
- Industry Standard Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- -40 °C to +100 °C Operating Temperature
- Low Cost Design
- 3 Year Warranty

Dimensions:

JCD04: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
4 W	3.3 VDC	1200 mA	JCD04xxS3V3
4 W	5.0 VDC	800 mA	JCD04xxS05
4 W	9.0 VDC	444 mA	JCD04xxS09
4 W	12.0 VDC	333 mA	JCD04xxS12
4 W	15.0 VDC	266 mA	JCD04xxS15
4 W	24.0 VDC	166 mA	JCD04xxS24
4 W	±3.3 VDC	±600 mA	JCD04xxD3V3
4 W	±5.0 VDC	±400 mA	JCD04xxD05
4 W	±9.0 VDC	±220 mA	JCD04xxD09
4 W	±12.0 VDC	±166 mA	JCD04xxD12
4 W	±15.0 VDC	±133 mA	JCD04xxD15
4 W	±24.0 VDC	±83 mA	JCD04xxD24

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JCD0405S05
(9.0 & 24.0 V single and dual not available)
9.0-18.0 V replace xx with 12 eg. JCD0412S05
18.0-36.0 V replace xx with 24 eg. JCD0424S05
36.0-72.0 V replace xx with 48 eg. JCD0448S05
For 3500 VDC isolation, add suffix '-H'.

4 Watts

JTC04

- 4:1 Input Range
- Single & Dual Output
- DIP-24 Metal Package
- Operating Temperature -40 °C to +100 °C
- Continuous Short Circuit Protection
- 1500 VDC Isolation
- Optional 3500 VDC Isolation
- 3 Year Warranty

Dimensions:

JTC04: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
4 W	3.3 VDC	1200 mA	JTC04xxS3V3
4 W	5.0 VDC	800 mA	JTC04xxS05
4 W	9.0 VDC	445 mA	JTC04xxS09
4 W	12.0 VDC	333 mA	JTC04xxS12
4 W	15.0 VDC	267 mA	JTC04xxS15
4 W	18.0 VDC	223 mA	JTC04xxS18
4 W	24.0 VDC	167 mA	JTC04xxS24
4 W	±3.3 VDC	±606 mA	JTC04xxD03
4 W	±5.0 VDC	±400 mA	JTC04xxD05
4 W	±9.0 VDC	±222 mA	JTC04xxD09
4 W	±12.0 VDC	±167 mA	JTC04xxD12
4 W	±15.0 VDC	±134 mA	JTC04xxD15
4 W	±24.0 VDC	±84 mA	JTC04xxD24

Notes:
For input range: 9-36 V replace xx with 24 eg. JTC0424S05
18-72 V replace xx with 48 eg. JTC0448S05
For 3500 VDC isolation, add suffix '-H'.

5 Watts

JCD05

- 2:1 Input Range
- Single & Dual Output
- Industry Standard Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- -40 °C to +100 °C Operating Temperature
- Low Cost Design
- 3 Year Warranty

Dimensions:

JCD05: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
4.2 W	3.3 VDC	1300 mA	JCD05xxS3V3
5 W	5.0 VDC	1000 mA	JCD05xxS05
5 W	9.0 VDC	555 mA	JCD05xxS09
5 W	12.0 VDC	417 mA	JCD05xxS12
5 W	15.0 VDC	333 mA	JCD05xxS15
5 W	24.0 VDC	208 mA	JCD05xxS24
5 W	±3.3 VDC	±750 mA	JCD05xxD03
5 W	±5.0 VDC	±500 mA	JCD05xxD05
5 W	±9.0 VDC	±278 mA	JCD05xxD09
5 W	±12.0 VDC	±208 mA	JCD05xxD12
5 W	±15.0 VDC	±167 mA	JCD05xxD15
5 W	±24.0 VDC	±104 mA	JCD05xxD24

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JCD0505S05
(9.0 & 24.0 V single and dual not available)
9.0-18.0 V replace xx with 12 eg. JCD0512S05
18.0-36.0 V replace xx with 24 eg. JCD0524S05
36.0-72.0 V replace xx with 48 eg. JCD0548S05
For 3500 VDC isolation, add suffix '-H'.

6 Watts

JCD06

- 2:1 Input Range
- Single & Dual Output
- Industry Standard Package
- 1600 VDC Isolation
- Continuous Short Circuit Protection
- -40 °C to +100 °C Operating Temperature
- Low Cost Design
- 3 Year Warranty

Dimensions:

JCD06: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
4.6 W	3.3 VDC	1400 mA	JCD06xxS3V3
6 W	5.0 VDC	1200 mA	JCD06xxS05
6 W	9.0 VDC	666 mA	JCD06xxS09
6 W	12.0 VDC	500 mA	JCD06xxS12
6 W	15.0 VDC	400 mA	JCD06xxS15
6 W	24.0 VDC	250 mA	JCD06xxS24
6 W	±3.3 VDC	±909 mA	JCD06xxD03
6 W	±5.0 VDC	±600 mA	JCD06xxD05
6 W	±9.0 VDC	±333 mA	JCD06xxD09
6 W	±12.0 VDC	±250 mA	JCD06xxD12
6 W	±15.0 VDC	±200 mA	JCD06xxD15
6 W	±24.0 VDC	±125 mA	JCD06xxD24

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JCD0605S05
(9.0 & 24.0 V single and dual not available)
9.0-18.0 V replace xx with 12 eg. JCD0612S05
18.0-36.0 V replace xx with 24 eg. JCD0624S05
36.0-72.0 V replace xx with 48 eg. JCD0648S05
For 3500 VDC isolation, add suffix '-H'.

6 Watts

JTC06

- 4:1 Input Range
- Single & Dual Output
- DIP-24 Metal Package
- Operating Temperature -40 °C to +100 °C
- Continuous Short Circuit Protection
- 1500 VDC Isolation
- Optional 3500 VDC Isolation
- 3 Year Warranty

Dimensions:

JTC06: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
4.6 W	3.3 VDC	1400 mA	JTC06xxS3V3
6 W	5.0 VDC	1200 mA	JTC06xxS05
6 W	9.0 VDC	667 mA	JTC06xxS09
6 W	12.0 VDC	500 mA	JTC06xxS12
6 W	15.0 VDC	400 mA	JTC06xxS15
6 W	18.0 VDC	334 mA	JTC06xxS18
6 W	24.0 VDC	250 mA	JTC06xxS24
6 W	±3.3 VDC	±909 mA	JTC06xxD03
6 W	±5.0 VDC	±600 mA	JTC06xxD05
6 W	±9.0 VDC	±333 mA	JTC06xxD09
6 W	±12.0 VDC	±250 mA	JTC06xxD12
6 W	±15.0 VDC	±200 mA	JTC06xxD15
6 W	±24.0 VDC	±125 mA	JTC06xxD24

Notes:
For input range: 9-36 V replace xx with 24 eg. JTC0624S05
18-72 V replace xx with 48 eg. JTC0648S05
For 3500 VDC isolation, add suffix '-H'.

3 to 6 Watts

JHM03-06

- International Medical Approvals
- 3000 VAC Reinforced Insulation
- 60 °C Operation Without Derating
- 2 µA Patient Leakage Current
- DIP-24 Package
- EN55011 Level A
- ±10% User Adjustable
- 3 Year Warranty

Dimensions:

JHM03/JHM06:
1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.4 mm)

Power	Output Voltage	Output Current	Model
3 W	5.0 VDC	600 mA	JHM03xxS05
3 W	12.0 VDC	250 mA	JHM03xxS12
3 W	15.0 VDC	200 mA	JHM03xxS15
3 W	±12.0 VDC	±125 mA	JHM03xxD12
3 W	±15.0 VDC	±100 mA	JHM03xxD15
6 W	5.0 VDC	1200 mA	JHM06xxS05
6 W	12.0 VDC	500 mA	JHM06xxS12
6 W	15.0 VDC	400 mA	JHM06xxS15
6 W	±12.0 VDC	±250 mA	JHM06xxD12
6 W	±15.0 VDC	±200 mA	JHM06xxD15

Notes:
For input range: 10-17 V replace xx with 12 eg. JHM0312S05
20-30 V replace xx with 24 eg. JHM0324S05

10 Watts

JHM10

- International Medical Approvals
- 4000 VAC Reinforced Insulation
- Meets IEC60601-1, 3rd Edition
- 2 µA Patient Leakage Current
- DIP-24 Package
- EN55011 Level A
- ±10% User Adjustable
- 3 Year Warranty

Dimensions:

JHM10: 1.25 x 0.80 x 0.50" (31.8 x 20.3 x 12.7 mm)

Power	Output Voltage	Output Current	Model
10 W	5.0 VDC	2000 mA	JHM10xxS05
10 W	12.0 VDC	833 mA	JHM10xxS12
10 W	15.0 VDC	666 mA	JHM10xxS15
10 W	±5.0 VDC	±1000 mA	JHM10xxD05
10 W	±12.0 VDC	±420 mA	JHM10xxD12
10 W	±15.0 VDC	±333 mA	JHM10xxD15

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JHM1005S05
9.0-18.0 V replace xx with 12 eg. JHM1012S05
18.0-36.0 V replace xx with 24 eg. JHM1024S05

2 to 10 Watts

JCA02-10

- 2:1 Input Range
- Compact 1.0" x 0.8" Metal Package
- Industry Standard Pinout
- Single & Dual Output
- 1500 VDC Basic Insulation
- Operating Temperature -40 °C to +100 °C
- UL & TUV Approved
- 3 Year Warranty

Dimensions:

JCA02/JCA03/JCA04/JCA06/JCA10:
1.00 x 0.80 x 0.40" (25.4 x 20.3 x 10.6 mm)

Power	Output Voltage	Output Current	Model
2 W	3.3 VDC	0.600 A	JCA02xxS03
2 W	5.0 VDC	0.400 A	JCA02xxS05
2 W	12.0 VDC	0.170 A	JCA02xxS12
2 W	15.0 VDC	0.140 A	JCA02xxS15
2 W	±5.0 VDC	±0.200 A	JCA02xxD01
2 W	±12.0 VDC	±0.085 A	JCA02xxD02
2 W	±15.0 VDC	±0.070 A	JCA02xxD03

Power	Output Voltage	Output Current	Model
3 W	3.3 VDC	0.910 A	JCA03xxS03
3 W	5.0 VDC	0.600 A	JCA03xxS05
3 W	12.0 VDC	0.260 A	JCA03xxS12
3 W	15.0 VDC	0.200 A	JCA03xxS15
3 W	±5.0 VDC	±0.300 A	JCA03xxD01
3 W	±12.0 VDC	±0.130 A	JCA03xxD02
3 W	±15.0 VDC	±0.100 A	JCA03xxD03

Power	Output Voltage	Output Current	Model
4 W	3.3 VDC	1.220 A	JCA04xxS03
4 W	5.0 VDC	0.800 A	JCA04xxS05
4 W	12.0 VDC	0.340 A	JCA04xxS12
4 W	15.0 VDC	0.280 A	JCA04xxS15
4 W	±5.0 VDC	±0.400 A	JCA04xxD01
4 W	±12.0 VDC	±0.170 A	JCA04xxD02
4 W	±15.0 VDC	±0.140 A	JCA04xxD03

Power	Output Voltage	Output Current	Model
5 W	3.3 VDC	1.520 A	JCA06xxS03
5 W	5.0 VDC	1.000 A	JCA06xxS05
6 W	12.0 VDC	0.500 A	JCA06xxS12
6 W	15.0 VDC	0.400 A	JCA06xxS15
6 W	±5.0 VDC	±0.500 A	JCA06xxD01
6 W	±12.0 VDC	±0.250 A	JCA06xxD02
6 W	±15.0 VDC	±0.200 A	JCA06xxD03

Power	Output Voltage	Output Current	Model
8 W	3.3 VDC	2.420 A	JCA10xxS03
8 W	5.0 VDC	1.600 A	JCA10xxS05
10 W	12.0 VDC	0.830 A	JCA10xxS12
10 W	15.0 VDC	0.660 A	JCA10xxS15
10 W	±5.0 VDC	±0.800 A	JCA10xxD01
10 W	±12.0 VDC	±0.420 A	JCA10xxD02
10 W	±15.0 VDC	±0.330 A	JCA10xxD03

Notes:
For input range: 4.5-9.0 V replace xx with 05 eg. JCA0205S05
9.0-18.0 V replace xx with 12 eg. JCA0212S05
18.0-36.0 V replace xx with 24 eg. JCA0224S05
36.0-75.0 V replace xx with 48 eg. JCA0248S05

8 to 10 Watts

JCJ08-10

- 2:1 Input Range
- DIP-24 Metal Package
- Single & Dual Output
- Operating Temperature -40 °C to +100 °C
- Continuous Short Circuit Protection
- 1500 VDC Isolation
- Outputs From 2.5 to 15 V
- 3 Year Warranty

Dimensions:

JCJ08/JCJ10:
1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
6.6 W	3.3 VDC	2.000 A	JCJ08xxS3V3
7.5 W	5.0 VDC	1.500 A	JCJ08xxS05
8 W	12.0 VDC	0.665 A	JCJ08xxS12
8 W	15.0 VDC	0.535 A	JCJ08xxS15
8 W	±5.0 VDC	±0.800 A	JCJ08xxD05
8 W	±12.0 VDC	±0.335 A	JCJ08xxD12
8 W	±15.0 VDC	±0.265 A	JCJ08xxD15
7.5 W	2.5 VDC	3.000 A	JCJ10xxS2V5
10 W	3.3 VDC	3.000 A	JCJ10xxS3V3
10 W	5.0 VDC	2.000 A	JCJ10xxS05
10 W	12.0 VDC	0.833 A	JCJ10xxS12
10 W	15.0 VDC	0.667 A	JCJ10xxS15
10 W	±12.0 VDC	±0.416 A	JCJ10xxD12
10 W	±15.0 VDC	±0.333 A	JCJ10xxD15

Notes:
For input range: 9-18 V replace xx with 12 eg. JCJ0812S05
18-36 V replace xx with 24 eg. JCJ0824S05
36-75 V replace xx with 48 eg. JCJ0848S05

10 Watts

JCH10

- 2:1 Input Range
- Industry Standard Package
- Single & Dual Output
- Outputs From 3.3 to 24 V
- 1500 VDC Isolation
- Continuous Short Circuit Protection
- -40 °C to +100 °C Operating Temperature
- 3 Year Warranty

Dimensions:

JCH10: 2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.2 mm)

Power	Output Voltage	Output Current	Model
6.6 W	3.3 VDC	2.000 A	JCH10xxS3V3
10 W	5.0 VDC	2.000 A	JCH10xxS05
10 W	12.0 VDC	0.833 A	JCH10xxS12
10 W	15.0 VDC	0.666 A	JCH10xxS15
10 W	24.0 VDC	0.416 A	JCH10xxS24
10 W	±3.3 VDC	±1.000 A	JCH10xxD03
10 W	±5.0 VDC	±1.000 A	JCH10xxD05
10 W	±12.0 VDC	±0.416 A	JCH10xxD12
10 W	±15.0 VDC	±0.333 A	JCH10xxD15
10 W	±24.0 VDC	±0.208 A	JCH10xxD24

Notes:
For input range: 9-18 V replace xx with 12 eg. JCH1012S05
18-36 V replace xx with 24 eg. JCH1024S05
36-72 V replace xx with 48 eg. JCH1048S05
Optional heatsink available.

8 to 12 Watts

JTF08-12

- 4:1 Input Range
- DIP-24 Metal Package
- Single & Dual Output
- Operating Temperature -40 °C to +105 °C
- Remote On/Off
- 1600 VDC Isolation
- High Power Density
- 3 Year Warranty

Dimensions:

JTF08/JTF10/JTF12:
1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
6.6 W	3.3 VDC	2.000 A	JTF08xxS3V3
8 W	5.0 VDC	1.500 A	JTF08xxS05
8 W	12.0 VDC	0.665 A	JTF08xxS12
8 W	15.0 VDC	0.535 A	JTF08xxS15
8 W	±5.0 VDC	±0.800 A	JTF08xxD05
8 W	±12.0 VDC	±0.335 A	JTF08xxD12
8 W	±15.0 VDC	±0.265 A	JTF08xxD15

Power	Output Voltage	Output Current	Model
9 W	3.3 VDC	2.700 A	JTF10xxS3V3
10 W	5.0 VDC	2.000 A	JTF10xxS05
10 W	12.0 VDC	0.833 A	JTF10xxS12
10 W	15.0 VDC	0.667 A	JTF10xxS15
10 W	±5.0 VDC	±1.000 A	JTF10xxD05
10 W	±12.0 VDC	±0.417 A	JTF10xxD12
10 W	±15.0 VDC	±0.330 A	JTF10xxD15

Power	Output Voltage	Output Current	Model
11.5 W	3.3 VDC	3.500 A	JTF12xxS3V3
12 W	5.0 VDC	2.400 A	JTF12xxS05
12 W	12.0 VDC	1.000 A	JTF12xxS12
12 W	15.0 VDC	0.800 A	JTF12xxS15
12 W	±5.0 VDC	±1.200 A	JTF12xxD05
12 W	±12.0 VDC	±0.500 A	JTF12xxD12
12 W	±15.0 VDC	±0.400 A	JTF12xxD15

Notes:
For input range: 9-36 V replace xx with 24 eg. JTF1224S05
18-75 V replace xx with 48 eg. JTF1248S05

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Ever wondered why seemingly similar power supplies have significantly different performance and reliability characteristics? The answers to these and many more questions can be found in the latest edition of **XP's Power Supply Technical Guide**, the culmination of many, many years experience gained by the XP Power applications team spread over three continents. Whether you're new to designing-in a power supply or DC-DC converter or an 'old hand', this book offers an invaluable resource and all the information you'll need in one easy reference guide.

15 Watts

JTF15

- 4:1 Input Range
- DIP-24 Metal Package
- Single & Dual Output
- Operating Temperature -40 °C to +105 °C
- Remote On/Off
- 1600 VDC Isolation
- High Power Density
- 3 Year Warranty

Dimensions:

JTF15: 1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
13 W	3.3 VDC	4.000 A	JTF15xxS3V3
15 W	5.1 VDC	3.000 A	JTF15xxS05
15 W	12.0 VDC	1.250 A	JTF15xxS12
15 W	15.0 VDC	1.000 A	JTF15xxS15
15 W	±5.0 VDC	±1.500 A	JTF15xxD05
15 W	±12.0 VDC	±0.625 A	JTF15xxD12
15 W	±15.0 VDC	±0.500 A	JTF15xxD15

Notes:
For input range: 9-36 V replace xx with 24 eg. JTF1524S05
18-75 V replace xx with 48 eg. JTF1548S05

12 to 15 Watts

JCG12-15

- 2:1 Input Range
- DIP-24 Metal Package
- Single & Dual Output
- Operating Temperature -40 °C to +100 °C
- Remote On/Off
- 1600 VDC Isolation
- High Power Density
- 3 Year Warranty

Dimensions:

JCG12/JCG15:
1.25 x 0.80 x 0.40" (31.8 x 20.3 x 10.2 mm)

Power	Output Voltage	Output Current	Model
8.7 W	2.5 VDC	3.500 A	JCG12xxS2V5
11.5 W	3.3 VDC	3.500 A	JCG12xxS3V3
12 W	5.0 VDC	2.400 A	JCG12xxS05
12 W	12.0 VDC	1.000 A	JCG12xxS12
12 W	15.0 VDC	0.800 A	JCG12xxS15
12 W	±12.0 VDC	±0.500 A	JCG12xxD12
12 W	±15.0 VDC	±0.400 A	JCG12xxD15
13 W	3.3 VDC	4.000 A	JCG15xxS3V3
15 W	5.1 VDC	3.000 A	JCG15xxS05
15 W	12.0 VDC	1.250 A	JCG15xxS12
15 W	15.0 VDC	1.000 A	JCG15xxS15
15 W	±5.0 VDC	±1.500 A	JCG15xxD05
15 W	±12.0 VDC	±0.625 A	JCG15xxD12
15 W	±15.0 VDC	±0.500 A	JCG15xxD15

Notes:
For input range: 9-18 V replace xx with 12 eg. JCG1212S05
18-36 V replace xx with 24 eg. JCG1224S05
36-75 V replace xx with 48 eg. JCG1248S05

15 Watts

JTH15

- 4:1 Input Range
- Industry Standard Package
- Single & Dual Output
- -40 °C to +100 °C Operating Temperature
- Optional Remote On/Off
- 1500 VDC Isolation
- Outputs From 3.3 to 15 V
- 3 Year Warranty

Dimensions:

JTH15: 2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.1 mm)

Power	Output Voltage		Output Current	Model
	Input	Output		
10 W	9-36 VDC	3.3 VDC	3.000 A	JTH1524S3V3
15 W	9-36 VDC	5.0 VDC	3.000 A	JTH1524S05
15 W	9-36 VDC	12.0 VDC	1.250 A	JTH1524S12
15 W	9-36 VDC	15.0 VDC	1.000 A	JTH1524S15
15 W	9-36 VDC	±5.0 VDC	±1.500 A	JTH1524D05
15 W	9-36 VDC	±12.0 VDC	±0.625 A	JTH1524D12
15 W	9-36 VDC	±15.0 VDC	±0.500 A	JTH1524D15
10 W	18-72 VDC	3.3 VDC	3.000 A	JTH1548S3V3
15 W	18-72 VDC	5.0 VDC	3.000 A	JTH1548S05
15 W	18-72 VDC	12.0 VDC	1.250 A	JTH1548S12
15 W	18-72 VDC	15.0 VDC	1.000 A	JTH1548S15
15 W	18-72 VDC	±5.0 VDC	±1.500 A	JTH1548D05
15 W	18-72 VDC	±12.0 VDC	±0.625 A	JTH1548D12
15 W	18-72 VDC	±15.0 VDC	±0.500 A	JTH1548D15

Notes:
For optional remote on/off, add suffix '-R'.
Optional heatsink available.

10 to 20 Watts

JTA10-20

- 4:1 Input Range
- Industry Standard Package
- Single & Dual Output
- -40 °C to +100 °C Operating Temperature
- Remote On/Off (15 & 20 W)
- 1500 VDC Basic Insulation
- UL Safety Approvals
- 3 Year Warranty

Dimensions:

JTA10:
2.00 x 1.00 x 0.44" (50.8 x 25.4 x 11.1 mm)
JTA15/JTA20:
2.00 x 1.60 x 0.45" (50.8 x 40.6 x 11.4 mm)

Power	Output Voltage		Output Current	Model
	Input	Output		
10 W	9-36 VDC	3.3 VDC	3.000 A	JTA1524S3V3
15 W	9-36 VDC	5.0 VDC	3.000 A	JTA1524S05
15 W	9-36 VDC	12.0 VDC	1.250 A	JTA1524S12
15 W	9-36 VDC	15.0 VDC	1.000 A	JTA1524S15
15 W	9-36 VDC	±5.0 VDC	±1.500 A	JTA1524D01
15 W	9-36 VDC	±12.0 VDC	±0.625 A	JTA1524D02
15 W	9-36 VDC	±15.0 VDC	±0.500 A	JTA1524D03
10 W	18-75 VDC	3.3 VDC	3.000 A	JTA1548S3V3
15 W	18-75 VDC	5.0 VDC	3.000 A	JTA1548S05
15 W	18-75 VDC	12.0 VDC	1.250 A	JTA1548S12
15 W	18-75 VDC	15.0 VDC	1.000 A	JTA1548S15
15 W	18-75 VDC	±5.0 VDC	±1.500 A	JTA1548D01
15 W	18-75 VDC	±12.0 VDC	±0.625 A	JTA1548D02
15 W	18-75 VDC	±15.0 VDC	±0.500 A	JTA1548D03

Power	Output Voltage		Output Current	Model
	Input	Output		
6.6 W	9-36 VDC	3.3 VDC	2.000 A	JTA1024S3V3
10 W	9-36 VDC	5.0 VDC	2.000 A	JTA1024S05
10 W	9-36 VDC	12.0 VDC	0.830 A	JTA1024S12
10 W	9-36 VDC	15.0 VDC	0.670 A	JTA1024S15
10 W	9-36 VDC	±5.0 VDC	±1.000 A	JTA1024D01
10 W	9-36 VDC	±12.0 VDC	±0.420 A	JTA1024D02
10 W	9-36 VDC	±15.0 VDC	±0.330 A	JTA1024D03
6.6 W	18-75 VDC	3.3 VDC	2.000 A	JTA1048S3V3
10 W	18-75 VDC	5.0 VDC	2.000 A	JTA1048S05
10 W	18-75 VDC	12.0 VDC	0.830 A	JTA1048S12
10 W	18-75 VDC	15.0 VDC	0.670 A	JTA1048S15
10 W	18-75 VDC	±5.0 VDC	±1.000 A	JTA1048D01
10 W	18-75 VDC	±12.0 VDC	±0.420 A	JTA1048D02
10 W	18-75 VDC	±15.0 VDC	±0.330 A	JTA1048D03

Power	Output Voltage		Output Current	Model
	Input	Output		
13.2 W	9-36 VDC	3.3 VDC	4.000 A	JTA2024S3V3
20 W	9-36 VDC	5.0 VDC	4.000 A	JTA2024S05
20 W	9-36 VDC	12.0 VDC	1.670 A	JTA2024S12
20 W	9-36 VDC	15.0 VDC	1.330 A	JTA2024S15
20 W	9-36 VDC	±5.0 VDC	±2.000 A	JTA2024D01
20 W	9-36 VDC	±12.0 VDC	±0.830 A	JTA2024D02
20 W	9-36 VDC	±15.0 VDC	±0.670 A	JTA2024D03
13.2 W	18-75 VDC	3.3 VDC	4.000 A	JTA2048S3V3
20 W	18-75 VDC	5.0 VDC	4.000 A	JTA2048S05
20 W	18-75 VDC	12.0 VDC	1.670 A	JTA2048S12
20 W	18-75 VDC	15.0 VDC	1.330 A	JTA2048S15
20 W	18-75 VDC	±5.0 VDC	±2.000 A	JTA2048D01
20 W	18-75 VDC	±12.0 VDC	±0.830 A	JTA2048D02
20 W	18-75 VDC	±15.0 VDC	±0.670 A	JTA2048D03

15 to 20 Watts

JCM15-20

- 2:1 Input Range
- Very High Power Density
- Single & Dual Output
- Operating Temperature -40 °C to +105 °C
- High Efficiency - up to 89%
- 1600 VDC Isolation
- Remote On/Off
- 3 Year Warranty

Dimensions:

JCM15/JCM20:
1.00 x 1.00 x 0.39" (25.4 x 25.4 x 9.90 mm)

Power	Output Voltage	Output Current	Model
13 W	3.3 VDC	4.000 A	JCM15xxS3V3
15 W	5.0 VDC	3.000 A	JCM15xxS05
15 W	12.0 VDC	1.300 A	JCM15xxS12
15 W	15.0 VDC	1.000 A	JCM15xxS15
15 W	±5.0 VDC	±1.500 A	JCM15xxD05
15 W	±12.0 VDC	±0.625 A	JCM15xxD12
15 W	±15.0 VDC	±0.500 A	JCM15xxD15
15 W	3.3 VDC	4.500 A	JCM20xxS3V3
20 W	5.0 VDC	4.000 A	JCM20xxxS05
20 W	12.0 VDC	1.670 A	JCM20xxxS12
20 W	15.0 VDC	1.330 A	JCM20xxxS15
20 W	±12.0 VDC	±0.833 A	JCM20xxxD12
20 W	±15.0 VDC	±0.677 A	JCM20xxxD15

Notes:
For input range: 9-18 V replace xx with 12 eg. JCM1512S05
18-36 V replace xx with 24 eg. JCM1524S05
36-75 V replace xx with 48 eg. JCM1548S05

15 to 20 Watts

JTK15-20

- 4:1 Input Range
- Very High Power Density
- Single & Dual Output
- Operating Temperature -40 °C to +100 °C
- High Efficiency - up to 89%
- 1600 VDC Isolation
- Remote On/Off
- 3 Year Warranty

Dimensions:

JTK15/JTK20:
1.00 x 1.00 x 0.39" (25.4 x 25.4 x 9.90 mm)

Power	Output Voltage	Output Current	Model
13 W	3.3 VDC	4.000 A	JTK15xxS3V3
15 W	5.0 VDC	3.000 A	JTK15xxS05
15 W	12.0 VDC	1.300 A	JTK15xxS12
15 W	15.0 VDC	1.000 A	JTK15xxS15
15 W	±5.0 VDC	±1.500 A	JTK15xxD05
15 W	±12.0 VDC	±0.625 A	JTK15xxD12
15 W	±15.0 VDC	±0.500 A	JTK15xxD15
15 W	3.3 VDC	4.500 A	JTK20xxS3V3
20 W	5.0 VDC	4.000 A	JTK20xxxS05
20 W	12.0 VDC	1.670 A	JTK20xxxS12
20 W	15.0 VDC	1.330 A	JTK20xxxS15
20 W	±12.0 VDC	±0.833 A	JTK20xxxD12
20 W	±15.0 VDC	±0.677 A	JTK20xxxD15

Notes:
For input range: 9-36 V replace xx with 24 eg. JTK1524S05
18-75 V replace xx with 48 eg. JTK1548S05

20 Watts

JTM20

- 4:1 Input Range
- Industry Standard Package
- Single & Dual Output
- -40 °C to +105 °C Operating Temperature
- Remote On/Off
- ±10% Adjustment (Single Outputs)
- 1600 VDC Isolation
- 3 Year Warranty

Dimensions:

JTM20:
2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.1 mm)

Power	Output Voltage		Output Current	Model
	Input	Output		
18 W	9-36 VDC	3.3 VDC	5.500 A	JTM2024S3V3
20 W	9-36 VDC	5.0 VDC	4.000 A	JTM2024S05
20 W	9-36 VDC	12.0 VDC	1.670 A	JTM2024S12
20 W	9-36 VDC	15.0 VDC	1.330 A	JTM2024S15
20 W	9-36 VDC	±5.0 VDC	±2.000 A	JTM2024D05
20 W	9-36 VDC	±12.0 VDC	±0.835 A	JTM2024D12
20 W	9-36 VDC	±15.0 VDC	±0.665 A	JTM2024D15
18 W	18-75 VDC	3.3 VDC	5.500 A	JTM2048S3V3
20 W	18-75 VDC	5.0 VDC	4.000 A	JTM2048S05
20 W	18-75 VDC	12.0 VDC	1.670 A	JTM2048S12
20 W	18-75 VDC	15.0 VDC	1.330 A	JTM2048S15
20 W	18-75 VDC	±5.0 VDC	±2.000 A	JTM2048D05
20 W	18-75 VDC	±12.0 VDC	±0.835 A	JTM2048D12
20 W	18-75 VDC	±15.0 VDC	±0.665 A	JTM2048D15

Notes:
Optional heatsink available.

30 Watts

RDC30

- Input Voltage for Rail Applications
- Industry Standard Package
- 1500 VAC Basic Isolation
- Single, Dual and Triple Output
- High Power Density
- High Efficiency - up to 91%
- Remote On/Off
- 3 Year Warranty

Dimensions:

RDC30:
2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.2 mm)

Power	Output Voltage	Output Current	Model
25 W	3.3 VDC	7.50 A	RDC30xxS3V3
30 W	5.0 VDC	6.00 A	RDC30xxS05
30 W	12.0 VDC	2.50 A	RDC30xxS12
30 W	15.0 VDC	2.00 A	RDC30xxS15
30 W	±5.0 VDC	±3.00 A	RDC30xxD05
30 W	±12.0 VDC	±1.25 A	RDC30xxD12
30 W	±15.0 VDC	±1.00 A	RDC30xxD15
30 W	+3.3/±12 VDC	+5.00/±0.42 A	RDC30xxT0312
30 W	+3.3/±15 VDC	+5.00/±0.33 A	RDC30xxT0315
30 W	+5.0/±12 VDC	+4.00/±0.42 A	RDC30xxT0512
30 W	+5.0/±15 VDC	+4.00/±0.33 A	RDC30xxT0515

Notes:
For input range: 36-140 V replace xx with 72 eg. RDC3072S15
55-176 V replace xx with 110 eg. RDC30110S05
Optional heatsink available.

30 to 40 Watts

JTL30-40

- 4:1 Input Range
- Industry Standard Packages
- High Power Density
- Single, Dual and Triple Output (30 W)
- High Efficiency - up to 92%
- Remote On/Off
- 1600 VDC Isolation
- 3 Year Warranty

Dimensions:

JTL30: 2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.2 mm)
JTL40: 2.00 x 2.00 x 0.40" (50.8 x 50.8 x 10.2 mm)

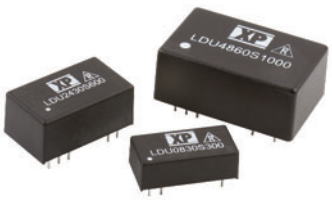
Notes:
For input range: 9-36 V replace xx with 24 eg. JTL3024S05
18-75 V replace xx with 48 eg. JTL3048S05
Optional heatsink available.

Power	Output Voltage	Output Current	Model
30 W	3.3 VDC	7.50 A	JTL30xxS3V3
30 W	5.0 VDC	6.00 A	JTL30xxS05
30 W	12.0 VDC	2.50 A	JTL30xxS12
30 W	15.0 VDC	2.00 A	JTL30xxS15
30 W	±5.0 VDC	±3.00 A	JTL30xxD05
30 W	±12.0 VDC	±1.25 A	JTL30xxD12
30 W	±15.0 VDC	±1.00 A	JTL30xxD15
30 W	+3.3/±12.0 VDC	±5.00/±0.42 A	JTL30xxT0312
30 W	+3.3/±15.0 VDC	±5.00/±0.33 A	JTL30xxT0315
30 W	+5.0/±12.0 VDC	±4.00/±0.42 A	JTL30xxT0512
30 W	+5.0/±15.0 VDC	±4.00/±0.33 A	JTL30xxT0515
40 W	3.3 VDC	10.00 A	JTL40xxS3V3
40 W	5.0 VDC	8.00 A	JTL40xxS05
40 W	12.0 VDC	3.35 A	JTL40xxS12
40 W	15.0 VDC	2.65 A	JTL40xxS15
40 W	±12.0 VDC	±1.65 A	JTL40xxD12
40 W	±15.0 VDC	±1.35 A	JTL40xxD15

5 to 56 Watts

LDU05-56

- Constant Current LED Driver
- LED Drive Current From 150 mA to 1000 mA
- LED Strings from 2 to 57 V
- PWM Dimming Control
- Analog Dimming Control
- High Efficiency - up to 97%
- Open or Short Circuit LED Protection
- 3 Year Warranty



Dimensions:

LDU05/LDU07/LDU14:
0.50 x 0.40 x 0.27" (12.7 x 10.2 x 6.9 mm)
LDU08/LDU20:
0.80 x 0.40 x 0.27" (20.3 x 10.2 x 6.9 mm)
LDU24:
0.92 x 0.55 x 0.40" (23.4 x 14.0 x 10.2 mm)
LDU48/LDU56:
1.25 x 0.80 x 0.49" (31.8 x 20.3 x 12.5 mm)

Power	Voltage		Output Current	Model
	Input	Output		
4.2 W	7-16 VDC	2-14 VDC	300 mA	LDU0516S300
4.9 W	7-16 VDC	2-14 VDC	350 mA	LDU0516S350
7.0 W	7-16 VDC	2-14 VDC	500 mA	LDU0716S500
8.0 W	7-30 VDC	2-28 VDC	300 mA	LDU0830S300
8.0 W	7-30 VDC	2-28 VDC	350 mA	LDU0830S350
8.4 W	7-16 VDC	2-14 VDC	600 mA	LDU1416S600
9.8 W	7-16 VDC	2-14 VDC	700 mA	LDU1416S700
14.0 W	7-16 VDC	2-14 VDC	1000 mA	LDU1416S1000
14.0 W	7-30 VDC	2-28 VDC	500 mA	LDU2030S500
17.0 W	7-30 VDC	2-28 VDC	600 mA	LDU2030S600
20.0 W	7-30 VDC	2-28 VDC	700 mA	LDU2030S700
14.0 W	7-30 VDC	2-28 VDC	500 mA	LDU2430S500
17.0 W	7-30 VDC	2-28 VDC	600 mA	LDU2430S600
20.0 W	7-30 VDC	2-28 VDC	700 mA	LDU2430S700
24.0 W	7-30 VDC	2-28 VDC	1000 mA	LDU2430S1000

Power	Voltage		Output Current	Model
	Input	Output		
9 W	7-60 VDC	2-57 VDC	150 mA	LDU4860S150
14 W	7-60 VDC	2-57 VDC	250 mA	LDU4860S250
17 W	7-60 VDC	2-57 VDC	300 mA	LDU4860S300
20 W	7-60 VDC	2-57 VDC	350 mA	LDU4860S350
29 W	7-60 VDC	2-57 VDC	500 mA	LDU4860S500
34 W	7-60 VDC	2-57 VDC	600 mA	LDU4860S600
40 W	7-60 VDC	2-57 VDC	700 mA	LDU4860S700
48 W	7-60 VDC	2-48 VDC	1000 mA	LDU4860S1000

Power	Voltage		Output Current	Model
	Input	Output		
16.8 W	9-60 VDC	2-56 VDC	300 mA	LDU5660S300
19.6 W	9-60 VDC	2-56 VDC	350 mA	LDU5660S350
28.0 W	9-60 VDC	2-56 VDC	500 mA	LDU5660S500
33.6 W	9-60 VDC	2-56 VDC	600 mA	LDU5660S600
39.2 W	9-60 VDC	2-56 VDC	700 mA	LDU5660S700
56.0 W	9-60 VDC	2-56 VDC	1000 mA	LDU5660S1000

Notes:
LDU08, 24, 48 & 56 available as wired versions (100 mm), add suffix '-W'.
For wired (100 mm) with dimming control, add suffix '-WD'.

15 to 60 Watts

JCK15-60

- 2:1 Input Range
- Industry Standard Packages
- Single & Dual Output
- High Efficiency - up to 92%
- Remote On/Off (20, 30, 40 & 60 W)
- 1600 VDC Isolation
- Very High Power Density
- 3 Year Warranty

Dimensions:

JCK15/JCK20/JCK30/JCK40:
2.00 x 1.00 x 0.40" (50.8 x 25.4 x 10.2 mm)
JCK60:
2.00 x 2.00 x 0.40" (50.8 x 50.8 x 10.2 mm)

Power	Output Voltage	Output Current	Model
10 W	3.3 VDC	3.000 A	JCK15xxS3V3
15 W	5.0 VDC	3.000 A	JCK15xxS05
15 W	12.0 VDC	1.250 A	JCK15xxS12
15 W	15.0 VDC	1.000 A	JCK15xxS15
15 W	±3.3 VDC	±1.500 A	JCK15xxD03
15 W	±5.0 VDC	±1.500 A	JCK15xxD05
15 W	±12.0 VDC	±0.625 A	JCK15xxD12
15 W	±15.0 VDC	±0.500 A	JCK15xxD15

Power	Output Voltage	Output Current	Model
18 W	3.3 VDC	5.500 A	JCK20xxS3V3
20 W	5.0 VDC	4.000 A	JCK20xxS05
20 W	12.0 VDC	1.670 A	JCK20xxS12
20 W	15.0 VDC	1.330 A	JCK20xxS15
20 W	±12.0 VDC	±0.835 A	JCK20xxD12
20 W	±15.0 VDC	±0.665 A	JCK20xxD15

Power	Output Voltage	Output Current	Model
26 W	3.3 VDC	8.000 A	JCK30xxS3V3
30 W	5.0 VDC	6.000 A	JCK30xxS05
30 W	5.1 VDC	6.000 A	JCK30xxS5V1
30 W	12.0 VDC	2.500 A	JCK30xxS12
30 W	15.0 VDC	2.000 A	JCK30xxS15
30 W	±5.0 VDC	±3.000 A	JCK30xxD05
30 W	±12.0 VDC	±1.250 A	JCK30xxD12
30 W	±15.0 VDC	±1.000 A	JCK30xxD15

Power	Output Voltage	Output Current	Model
26 W	3.3 VDC	8.000 A	JCK40xxS3V3
40 W	5.0 VDC	8.000 A	JCK40xxS05
40 W	12.0 VDC	3.330 A	JCK40xxS12
40 W	15.0 VDC	2.670 A	JCK40xxS15
40 W	±12.0 VDC	±1.670 A	JCK40xxD12
40 W	±15.0 VDC	±1.330 A	JCK40xxD15

Power	Output Voltage	Output Current	Model
46 W	3.3 VDC	14.000 A	JCK60xxS3V3
60 W	5.0 VDC	12.000 A	JCK60xxS05
60 W	12.0 VDC	5.000 A	JCK60xxS12
60 W	15.0 VDC	4.000 A	JCK60xxS15

Notes:
For input range: 9-18 V replace xx with 12 eg. JCK2012S05
(Not available in JCK60 range)
18-36 V replace xx with 24 eg. JCK2024S05
36-75 V replace xx with 48 eg. JCK2048S05
Optional heatsink available.

50 to 75 Watts

ICH50-75

- 2:1 & 4:1 Input Ranges
- Industry Standard Half Brick Package
- Single Output
- -40 °C to +100 °C Operating Temperature
- Remote Sense
- Remote On/Off
- Continuous Short Circuit Protection
- 3 Year Warranty

Dimensions:

ICH50/ICH75:
2.40 x 2.28 x 0.50" (61.0 x 57.9 x 12.7 mm)

Power	Output Voltage	Output Current	Model
33 W	3.3 VDC	10.00 A	ICH50xxS3V3
50 W	5.0 VDC	10.00 A	ICH50xxS05
50 W	12.0 VDC	4.16 A	ICH50xxS12
50 W	15.0 VDC	3.33 A	ICH50xxS15
50 W	24.0 VDC	2.08 A	ICH50xxS24
50 W	3.3 VDC	15.00 A	ICH75xxS3V3
75 W	5.0 VDC	15.00 A	ICH75xxS05
75 W	12.0 VDC	6.25 A	ICH75xxS12
75 W	15.0 VDC	5.00 A	ICH75xxS15
75 W	24.0 VDC	3.13 A	ICH75xxS24

Notes:
For input range: 9-18 V replace xx with 12 eg. ICH5012S05
18-36 V replace xx with 24 eg. ICH5024S05
36-75 V replace xx with 48 eg. ICH5048S05
For input range: 9-36 V replace xx with 24W eg. ICH5024WS12
18-75 V replace xx with 48W eg. ICH5048WS12

100 to 150 Watts

ICH100-150

- 2:1 & 4:1 Input Ranges
- Industry Standard Half Brick Package
- Single Output
- -40 °C to +100 °C Operating Temperature
- Remote Sense
- Remote On/Off
- Continuous Short Circuit Protection
- 3 Year Warranty

Dimensions:

ICH100/ICH150:
2.40 x 2.28 x 0.50" (61.0 x 57.9 x 12.7 mm)

Power	Output Voltage	Output Current	Model
50 W	2.5 VDC	20.00 A	ICH100xxS2V5
66 W	3.3 VDC	20.00 A	ICH100xxS3V3
100 W	5.0 VDC	20.00 A	ICH100xxS05
100 W	12.0 VDC	8.30 A	ICH100xxS12
100 W	15.0 VDC	6.70 A	ICH100xxS15
100 W	24.0 VDC	4.170 A	ICH100xxS24
75 W	2.5 VDC	30.00 A	ICH150xxS2V5
100 W	3.3 VDC	30.00 A	ICH150xxS3V3
150 W	5.0 VDC	30.00 A	ICH150xxS05
150 W	12.0 VDC	12.50 A	ICH150xxS12
150 W	15.0 VDC	10.00 A	ICH150xxS15
150 W	24.0 VDC	6.25 A	ICH150xxS24

Notes:
ICH100
For input range: 18-36 V replace xx with 24 eg. ICH10024S05
36-75 V replace xx with 48 eg. ICH10048S05
9-36 V replace xx with 24W eg. ICH10024WS12
18-75 V replace xx with 48W eg. ICH10048WS12

ICH150
For input range: 36-75 V replace xx with 48 eg. ICH15048S05

100 to 150 Watts

RDQ100-150

- 110 VDC Input for Rail Applications
- High Efficiency - up to 92%
- Quarter and Half Brick Packages
- -40 °C to +100 °C Operating Temperature
- Baseplate-cooled
- Remote On/Off
- Remote Sense
- 3 Year Warranty

Dimensions:

RDQ100: 2.28 x 1.45 x 0.50" (57.9 x 36.8 x 12.7 mm)
RDQ150: 2.40 x 2.28 x 0.50" (61.0 x 57.9 x 12.7 mm)

Power	Output Voltage		Output Current	Model
	Input	Output		
100 W	66-160 VDC	5.0 VDC	20.00 A	RDQ100110S05
100 W	66-160 VDC	12.0 VDC	8.40 A	RDQ100110S12
100 W	66-160 VDC	24.0 VDC	4.20 A	RDQ100110S24
150 W	66-160 VDC	5.0 VDC	30.00 A	RDQ150110S05
150 W	66-160 VDC	12.0 VDC	12.50 A	RDQ150110S12
150 W	66-160 VDC	24.0 VDC	6.50 A	RDQ150110S24

75 to 150 Watts

QSB75-150

- 4:1 Input Range
- Industry Standard Packages
- Single Output
- High Efficiency - up to 91%
- -40 °C to +100 °C Operating Temperature
- Baseplate-cooled
- Remote On/Off & Remote Sense
- 3 Year Warranty

Dimensions:

QSB75/QSB100:
2.28 x 1.45 x 0.50" (57.9 x 36.8 x 12.7 mm)
QSB150: 2.40 x 2.28 x 0.52" (61.0 x 57.9 x 13.2 mm)

Power	Output Voltage	Output Current	Model
40 W	3.3 VDC	12.00 A	QSB75xxS3V3
60 W	5.0 VDC	12.00 A	QSB75xxS05
75 W	12.0 VDC	6.25 A	QSB75xxS12
75 W	15.0 VDC	5.00 A	QSB75xxS15
75 W	24.0 VDC	3.12 A	QSB75xxS24
66 W	3.3 VDC	20.00 A	QSB100xxS3V3
100 W	5.0 VDC	20.00 A	QSB100xxS05
100 W	12.0 VDC	8.30 A	QSB100xxS12
100 W	15.0 VDC	6.70 A	QSB100xxS15
100 W	24.0 VDC	4.17 A	QSB100xxS24
99 W	3.3 VDC	30.00 A	QSB150xxS3V3
150 W	5.0 VDC	30.00 A	QSB150xxS05
150 W	12.0 VDC	12.50 A	QSB150xxS12
150 W	15.0 VDC	10.00 A	QSB150xxS15
150 W	24.0 VDC	6.50 A	QSB150xxS24

Notes:
For input range: 9-36 V replace xx with 24 eg. QSB7524S05
18-75 V replace xx with 48 eg. QSB7548S05

200 to 350 Watts

QSB200-350

- 2:1 & 4:1 Input Ranges
- Industry Standard Packages
- Single Output
- High Efficiency - up to 92%
- -40 °C to +100 °C Operating Temperature
- Remote On/Off & Remote Sense
- Baseplate-cooled
- 3 Year Warranty

Dimensions:

QSB200/QSB300/QSB350:
2.40 x 2.28 x 0.52" (61.0 x 57.9 x 13.2 mm)

Power	Output Voltage	Output Current	Model
165 W	3.3 VDC	50.00 A	QSB200xxS3V3
200 W	5.0 VDC	40.00 A	QSB200xxS05
200 W	12.0 VDC	16.70 A	QSB200xxS12
200 W	15.0 VDC	13.30 A	QSB200xxS15
200 W	24.0 VDC	8.30 A	QSB200xxS24
300 W	5.0 VDC	60.00 A	QSB300xxS05
300 W	12.0 VDC	25.00 A	QSB300xxS12
300 W	24.0 VDC	12.50 A	QSB300xxS24
300 W	28.0 VDC	10.71 A	QSB300xxS28
300 W	48.0 VDC	6.25 A	QSB300xxS48
231 W	3.3 VDC	70.00 A	QSB350xxS3V3
350 W	5.0 VDC	70.00 A	QSB350xxS05
350 W	12.0 VDC	29.20 A	QSB350xxS12
350 W	24.0 VDC	14.60 A	QSB350xxS24
350 W	28.0 VDC	12.50 A	QSB350xxS28

Notes: QSB200/300
For input range: 9-36 V replace xx with 24 eg. QSB20024S05*
18-75 V replace xx with 48 eg. QSB20048S05
*QSB200 only

QSB350:
For input range: 18-36 V replace xx with 24 eg. QSB35024S05
36-75 V replace xx with 48 eg. QSB35048S05

400 to 600 Watts

QSB400-600

- 2:1 & 4:1 Input Ranges
- Industry Standard Packages
- Single Output
- High Efficiency - up to 92%
- -40 °C to +100 °C Operating Temperature
- Remote On/Off & Remote Sense
- Baseplate-cooled
- 3 Year Warranty

Dimensions:

QSB400/QSB600:
4.60 x 2.40 x 0.50" (116.8 x 61.0 x 12.7 mm)

Power	Output Voltage	Output Current	Model
400 W	5.0 VDC	80.00 A	QSB400xxS05
400 W	12.0 VDC	33.30 A	QSB400xxS12
400 W	24.0 VDC	16.60 A	QSB400xxS24
400 W	28.0 VDC	14.30 A	QSB400xxS28
400 W	48.0 VDC	8.30 A	QSB400xxS48
600 W	12.0 VDC	50.00 A	QSB600xxS12
600 W	28.0 VDC	21.50 A	QSB600xxS28
600 W	32.0 VDC	19.00 A	QSB600xxS32

Notes:
QSB400
For input range: 9-36 V replace xx with 24 eg. QSB40024S05
18-75 V replace xx with 48 eg. QSB40048S05

QSB600:
For input range: 18-36 V replace xx with 24 eg. QSB60024S05
36-75 V replace xx with 48 eg. QSB60048S05

100 to 500 Watts

DSF/FSO

- Defense EMC & Surge Filter (DSF100 & 226)
- Defense Surge Filter (DSF500)
- Defense EMC Filter (FSO)
- Up to 500 W Output Power
- MIL-STD 461 & DEF-STAN 59-411
- MIL-STD 1275 & DEF-STAN 61-5 Part 6 Issue 6
- MIL-STD 810
- 3 Year Warranty

Dimensions:

DSF100:
1.57 x 1.25 x 0.51" (39.9 x 31.9 x 12.9 mm)
DSF226:
2.41 x 1.45 x 0.51" (61.2 x 36.8 x 12.9 mm)
DSF500/FSO461:
2.28 x 2.28 x 0.51" (57.9 x 57.9 x 12.9 mm)

Power	Input Voltage	Output		Model
		Voltage	Current	
100 W	10-33 VDC	< 36.0 VDC	3.70 A	DSF100
200 W	15-33 VDC	< 36.0 VDC	13.33 A	DSF226
500 W	10-33 VDC	< 36.0 VDC	28.00 A	DSF500
500 W	0-100 VDC	Vin - Iin x 0.013	28.00 A	FSO461

5 to 30 Watts

MTC05-30

- 10-50 VDC Input for Vetronic & Avionic Use
- Single & Dual Output Versions
- Baseplate-cooled
- -55 °C Operation Available
- MIL-STD 461 and DEF-STAN 59-411
- MIL-STD 1275 and DEF-STAN 61-5
- Active Surge & EMC Filter Available (MTF)
- 3 Year Warranty

Dimensions:

MTC05: 1.26 x 0.76 x 0.34" (32.0 x 19.3 x 8.7 mm)
MTC15 Single Output:
1.58 x 1.02 x 0.38" (40.0 x 26.0 x 9.7 mm)
MTC15 Dual Output:
1.58 x 1.02 x 0.50" (40.0 x 26.0 x 12.7 mm)
MTC30: 2.28 x 1.81 x 0.50" (58.0 x 46.0 x 12.7 mm)
MTF: 1.57 x 1.02 x 0.50" (40.0 x 26.0 x 12.7 mm)

Power	Output Voltage	Output Current	Model
4 W	3.3 VDC	1.21 A	MTC0528S3V3
4 W	5.0 VDC	0.80 A	MTC0528S05
5 W	12.0 VDC	0.42 A	MTC0528S12
5 W	15.0 VDC	0.33 A	MTC0528S15
5 W	28.0 VDC	0.18 A	MTC0528S28
10 W	3.3 VDC	3.03 A	MTC1528S3V3
12 W	5.0 VDC	2.40 A	MTC1528S05
15 W	12.0 VDC	1.25 A	MTC1528S12
15W	15.0 VDC	1.00 A	MTC1528S15
15 W	28.0 VDC	0.54 A	MTC1528S28
15 W	±12.0 VDC	±1.00 A	MTC1528D12
15 W	±15.0 VDC	±0.80 A	MTC1528D15
20 W	3.3 VDC	6.06 A	MTC3028S3V3
25 W	5.0 VDC	5.00 A	MTC3028S05
32 W	12.0 VDC	2.70 A	MTC3028S12
35 W	15.0 VDC	2.33 A	MTC3028S15
35 W	28.0 VDC	1.25 A	MTC3028S28
30 W	±12.0 VDC	±2.00 A	MTC3028D12
30 W	±15.0 VDC	±1.60 A	MTC3028D15

MTF

- For Use With MTC05-30
- Active Surge Protection
- Max Output Power 50 W

Power	Input Voltage	Output Voltage	Model
50 W	15.5 - 40.0 VDC	50.0 VDC	MTF50

Notes:
For -55 °C operation, add suffix '-LT'.

35 to 150 Watts

MTC35-150

- Designed for Vetronic & Avionic Use
- 10-40 VDC Input Range
- Magnetic Feedback Technology
- -55 °C to +100 °C Operation
- MIL-STD 461 and DEF-STAN 59-411
- MIL-STD 1275 and DEF-STAN 61-5
- Compatible with DSF/FSO Series
- 3 Year Warranty

Dimensions:

MTC35:
2.00 x 1.10 x 0.50" (50.8 x 27.9 x 12.7 mm)
MTC50:
2.28 x 1.45 x 0.50" (58.0 x 36.8 x 12.7 mm)
MTC75/MTC150:
2.40 x 2.28 x 0.50" (61.0 x 57.9 x 12.7 mm)

Power	Output Voltage	Output Current	Model
35 W	3.3 VDC	10.00 A	MTC3528S3V3
35 W	5.0 VDC	7.00 A	MTC3528S05
35 W	12.0 VDC	2.90 A	MTC3528S12
35 W	15.0 VDC	2.30 A	MTC3528S15
35 W	28.0 VDC	1.30 A	MTC3528S28
50 W	3.3 VDC	15.00 A	MTC5028S3V3
50 W	5.0 VDC	10.00 A	MTC5028S05
50 W	12.0 VDC	4.20 A	MTC5028S12
50 W	15.0 VDC	3.33 A	MTC5028S15
50 W	28.0 VDC	1.80 A	MTC5028S28
66 W	3.3 VDC	20.00 A	MTC7528S3V3
75 W	5.0 VDC	15.00 A	MTC7528S05
75 W	12.0 VDC	6.25 A	MTC7528S12
75 W	15.0 VDC	5.00 A	MTC7528S15
75 W	28.0 VDC	2.70 A	MTC7528S28
75 W	±12.0 VDC	±3.13 A	MTC7528D12
75 W	±15.0 VDC	±2.50 A	MTC7528D15
132 W	3.3 VDC	40.00 A	MTC15028S3V3
150 W	5.0 VDC	30.00 A	MTC15028S05
150 W	12.0 VDC	12.50 A	MTC15028S12
150 W	15.0 VDC	10.00 A	MTC15028S15
150 W	28.0 VDC	5.35 A	MTC15028S28
150 W	±12.0 VDC	±6.25 A	MTC15028D12
150 W	±15.0 VDC	±5.00 A	MTC15028S15

Notes:
MIL-STD & DEF-STAN compliance when used in conjuction with DSF/FSO Series.

100 Watts

MTH

- Designed for Extended Hold Up Applications
- 80% Less Hold Up Capacitance Required
- Reduces System Size and Weight
- 10 A Output Current
- Wide Input Range
- User Programmable
- Industrial & Defense Application
- 3 Year Warranty

Power	Input Voltage	Output Voltage	Model
100 W	10.0 - 40.0 VDC	Vin - (Iout x 0.013) Vcap - 0.8 VDC	MTH100

Dimensions:

MTH:
1.57 x 1.02 x 0.50" (40.0 x 26.0 x 12.7 mm)

Notes:
The MTH100 is designed to be used in conjunction with DC-DC converters to provide extended hold-up.
See longform datasheet for details.

400 to 600 Watts

MCC400-600

- 18.5-34 VDC Input Range
- Baseplate-cooled
- Up to 4 Regulated Outputs
- Optional 28 V/200 W Conditioned Output
- MIL-STD 1275 and DEF-STAN 61-5
- MIL-STD 461 and DEF-STAN 59-411
- Rugged Construction to MIL-STD 810F
- Remote On/Off
- 3 Year Warranty

Dimensions:

MCC400/MCC600:
7.29 x 6.50 x 1.08" (185.0 x 165.0 x 27.5 mm)

Modules Output Voltage / Current Rating

Voltage	Current	Power	Slots	Code
3.3 VDC	22.70 A	75 W	1	2C
3.3 VDC	45.40 A	150 W	2	3C
3.3 VDC	80.00 A	264 W	4	4C [2]
5.0 VDC	20.00 A	100 W	1	2D
5.0 VDC	40.00 A	200 W	2	3D
5.0 VDC	80.00 A	400 W	4	4D [2]
12.0 VDC	8.30 A	100 W	1	2J
12.0 VDC	16.60 A	200 W	2	3J
12.0 VDC	33.30 A	400 W	4	4J [2]
15.0 VDC	6.60 A	100 W	1	2L
15.0 VDC	13.30 A	200 W	2	3L
15.0 VDC	26.70 A	400 W	4	4L [2]
24.0 VDC	4.10 A	100 W	1	2P
24.0 VDC	8.30 A	200 W	2	3P
24.0 VDC	16.70 A	400 W	4	4P [2]
28.0 VDC	3.50 A	100 W	1	2Q
28.0 VDC	7.10 A	200 W	2	3Q
28.0 VDC	14.30 A	400 W	4	4Q [2]
36.0 VDC	2.78 A	100 W	1	2T
36.0 VDC	5.56 A	200 W	2	3T
36.0 VDC	11.11 A	400 W	4	4T
48.0 VDC	2.10 A	100 W	1	2W
48.0 VDC	4.10 A	200 W	2	3W
48.0 VDC	8.30 A	400 W	4	4W [2]

Chassis Designations, Power & Sizes

Code	Power	Slots
MCC4	400 W	4
MCC6	400 W + 200 W AUX	4

Notes:
1. Modules 1 to 4 available for MCC400/600 e.g. MCC4Q2D2J2L2PED.
2. 4 series output modules to be used with single MCC400/600 models only.
3. DC-DC output modules are stress-screened for -55 °C to +90 °C operation.
4. Low cost option with passive EMI filtering only. No auxiliary output, EMI to EN55022 level B only.
5. Global inhibit will also turn off the auxiliary output - Option A.

			Slot 1	Slot 2	Slot 3	Slot 4					
MCC	4	Q	2J	2J	2J	2J	E	X	X	X	X

Chassis designation: MCC4, MCC6 (see table above for power & sizes)

MCC400/600: Single (S), Dual (D), Triple (T) or Quad (Q) (4 slots max where all slots must be filled)

S - Standard
E - Screening option[3]
A - Auxiliary turn off[5]

D - DC OK, leave blank if not required
Q - Low noise output
L - Passive filtering only[4]
P - Conformal coating

Alphabetical Index

Our single global site is designed to give our customers the information they need from any location while retaining a familiar look and feel. By simply clicking on the relevant country, thousands of pages of information can be accessed including:

- **Latest Product News**
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- **Interactive Product Selector**
- **Detailed Company Information**
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Along with these features, the site has multiple search facilities to help simplify the product selection process. These search facilities include:

- Product Selector where specific requirements can be entered to get an instant selection of suitable products.
- Product Drop Down Menus for rapid product selection by type and power output.
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Each product has a full specifications available to view on screen. Everything from models and ratings, through to stock check are viewable.

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