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EV Charger for Smart Home

7.4kW / 22kW



Datasheet

Product Overview

Enhance your charging experience with the AC EV charger, endorsed by CE&UKCA and featuring the T2S socket option. Take control of your charger via a smart app and various connectivity choices.



Antenna

Logo

LED Light

RFID



Emergency Button Switch

Type 2 Socket

Function Test Button



Product Advantages



IP65 Rating



Wi-Fi/Ethernet /Bluetooth/4G



OCPP 1.6J



T2S Socket Option



DLB and Solar Compatible








Full Protection

EV Charger for Smart Home

Product Introduction

This is a mode 3 type AC EV Charger which is designed according to IEC 61851-21-2 standard, it can be wall mounted, it can also be installed on a pedestal.

Protection Functions

 Charging protocol OCPP1.6-J	 BCPM Series EV chargers have an IP65 patented design case for outdoor and indoor use.	 The type 2 socket with shutter in accordance with IEC 62196-2, makes highly flexible and compatible with all electric vehicles.
 Plug and start to charge automatic. (RFID card for option)	 The EV charger output power can be adjusted from 6A all the way up to 32A.	



EV Charger Model

B	CPM	AT	1	N	P	16
↓	↓	↓	↓	↓	↓	↓
Company	Application	Categories	Classification	Classification	OCPP	Max Current
B: New Energy	CPM: Home Charging	A: 1-Phase Tethered B: 1-Phase Socket AT: 3-Phase Tethered BT: 3-Phase Socket	1: Autostart 2: With RFID	None: Without The Following Functions D: With DLB Function N: Smart Version with DLB Function	P: OCPP	Blank: 32A 16: 16A

✔ RFID(Radio Frequency Identification Card)

RFID card reader enabled to start up charging function while approaching the swipe area.



EV Charger for Smart Home

Smart APP



The EV charger can be controlled by smart APP via WIFI or bluetooth connection.



One to one binding EV charger by reset the password, prevent the EV charger being stolen.



View charging data and status.



Set up various charging configurations, charging current, DLB mode, etc.



Scheduled charging.



Firmware update.



View historical charging records.



Setting monthly maximum charging values.

Electrical

Charging Capacity	1.3kW – 7.4kW / 4.1kW – 22kW
Charge Mode	Mode 3 (IEC 61851-1)
Output Power	Selectable 1-phase or 3-phase, 230-400V 6A -32A, 50-60Hz
Socket Type	Type 2 Socket with Shutter

Protection and certification

Build-in RCD	DC6mA leakage sensor built-in
Socket	IP65, IK10
Operating Temperature	-30~+55°C
Compliance	IEC61851-1, IEC61851-21-2, IEC61000-4 CE EMC EU/2014.CE Low Voltage EU/2014/35
Certificate	CE

Connectivity

Authorization	Auto-start standard / RFID card option
Status Indication	LED ring
WLAN Communication	Wi-Fi / Bluetooth 4.2 option
Charging Protocol	OCPP1.6-J

Mechanical

Housing	Metal
Dimension	W278 x H360 x D152 mm
Mounting	Wall or Pole

EV Charger for Smart Home

WIFI

Operating Frequency Range	2412 - 2484MHz
WI-FI Protocols	IEEE 802.11 b/g/n
Channels	13
TX Power	<20dbm
EIRP	0.459
TX bandwidth	20MHz/40MHz
Modulation type	OFDM & DSSS
Transmitting Duty Cycle	10%



BlueTooth BLE

Sensitivity @30.8% PER	-93 dbm
Co-channel C/I	+10db
RF Power Control Range	-12 ~ 9dbm

NFC

Modulation Type	ASK
Operating Frequency	13.56MHz
H-field strength	21.31 dBuA/m@3m distance
Antenna Type	Coil Antenna



Model Selection

Wallbox Models	BCPM-A2N-P	BCPM-AT2N-P
		
Maximum Power	7.4kW	22kW
Input Voltage /Output voltage	AC230V 1-Phase	AC400V 3-Phase
Input Frequency	50/60Hz	
Tethered/Socket	Tethered	
Meter	Built-in metering chip + external MID meter (optional)	
Display	LED Lights	
RFID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DLB	<input type="checkbox"/>	<input type="checkbox"/>
Wi-Fi	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ethernet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bluetooth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4G	<input type="checkbox"/>	<input type="checkbox"/>
Over Voltage &Under Voltage Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergency Stop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Over Current Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CP Signal Short Circuit Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Over Temperature Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lightning Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contactor Adhesion Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Model Selection

Length of gun cable	5M
Rate Charging Current	6-32A
Protection Degree	IP65
Environment Temperature	-30°C~+55°C
Storage Temperature	-40°C~+85°C
Gross Weight	12KG
Maximum Altitude	<2000m

☑ : Standard ○ : Optional

Wallbox Models	BCPM-B2N-P	BCPM-BT2N-P
		
Maximum Power	7.4kW	22kW
Input Voltage /Output voltage	AC230V 1-Phase	AC400V 3-Phase
Input Frequency	50/60Hz	
Tethered/Socket	Socket	
Meter	Built-in metering chip + external MID meter (optional)	
Display	LED Lights	
T2S Socket	<input type="radio"/>	<input type="radio"/>
RFID	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DLB	<input type="radio"/>	<input type="radio"/>
Wi-Fi	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ethernet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Bluetooth	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
4G	<input type="radio"/>	<input type="radio"/>
Over Voltage & Under Voltage Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Emergency Stop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Over Current Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
CP Signal Short Circuit Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Over Temperature Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Lightning Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Contactors Adhesion Protection	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Rate Charging Current	6-32A
Protection Degree	IP65
Environment Temperature	-30°C~+55°C
Storage Temperature	-40°C~+85°C
Gross Weight	9.3KG
Maximum Altitude	<2000m

: Standard : Optional