

Smart Home Charger



7.4kW to 22kW



1 connector



Smart Home Charger

Product Introduction

The charger is designed according to IEC 62752, IEC 61851-21-2 standard, mainly consists of control box, charging connector, plug and etc... which is a portable electric vehicle charging device. It enables car owners to charge electric vehicles anywhere using a standard home power interface, featuring high efficiency and portability.

Protection Functions



Charging protocol
OCPP1.6-J



BCPM Series EV chargers
have an IP66 patented
designcase 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.



Smart Home Charger

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

Protection and certification

Build-in RCD	DC6mA leakage sensor built-in
Socket	IP65, IK10
Housing Fire Ratings	V0
Operating Temperature	-25~+50°C
Compliance	IEC61851-1,IEC61851-21-2,IEC61000-4 CE EMC EU/2014.CE Low Voltage EU/2014/35
Certificate	CE, UKCA, CB, RCM

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	Plastic
Dimension	W278 x H360 x D152 mm
Mounting	Wall or Pole

Smart Home Charger

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

Smart Home Charger

1-Phase Un-smart Version

Wallbox Models	BCP-A1-L	BCP-A2-L	BCP-B1-L	BCP-B2-L
				
Categorization	Un-smart Version			
Maximum Power	7.4kW			
Input Voltage /Output voltage	AC230 1-Phase			
Input Frequency	50/60Hz			
Meter	Metering Chip			
Display	LED Lights			
RFID	✗	✓	✗	✓
DLB	✗	✗	✗	✗
Wi-Fi	✗	✗	✗	✗
APP	✗	✗	✗	✗
Bluetooth	✗	✗	✗	✗
Over Voltage &Under Voltage Protection	✓	✓	✓	✓
Emergency Stop	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓
CP Signal Short Circuit Protection	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓
Lightning Protection	✓	✓	✓	✓
Contactor Adhesion Protection	✓	✓	✓	✓
Protection Degree	IP65	IP65	IP55	IP55
Environment Temperature	-25°C~+55°C			
Maximun Altitude	< 2000m			

✓ : Standard ✗ : Without

CE

Smart Home Charger

1-Phase Un-smart Version

Wallbox Models	BCP-A1D-L	BCP-A2D-L	BCP-B1D-L	BCP-B2D-L
				
Categorization	Un-smart Version			
Maximum Power	7.4kW			
Input Voltage /Output voltage	AC230 1-Phase			
Input Frequency	50/60Hz			
Meter	Metering Chip			
Display	LED Lights			
RFID	✗	✓	✗	✓
DLB	○	○	○	○
Wi-Fi	✗	✗	✗	✗
APP	✗	✗	✗	✗
Bluetooth	✗	✗	✗	✗
Over Voltage &Under Voltage Protection	✓	✓	✓	✓
Emergency Stop	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓
CP Signal Short Circuit Protection	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓
Lightning Protection	✓	✓	✓	✓
Contactor Adhesion Protection	✓	✓	✓	✓
Protection Degree	IP65	IP65	IP55	IP55
Environment Temperature	-25°C~+55°C			
Maximun Altitude	< 2000m			

✓ : Standard ○ : Optional ✗ : Without

CE

UKCA

1-Phase Un-smart Version

Wallbox Models	BCP-A1-L-E	BCP-A2-L-E	BCP-B1-L-E	BCP-B2-L-E
				
Categorization	Un-smart Version			
Maximum Power	7.4kW			
Input Voltage /Output voltage	AC230 1-Phase			
Input Frequency	50/60Hz			
Meter	Metering Chip			
Display	LED Lights			
RFID	✗	✓	✗	✓
DLB	✗	✗	✗	✗
Wi-Fi	✗	✗	✗	✗
PEN	✓	✓	✓	✓
APP	✗	✗	✗	✗
Bluetooth	✗	✗	✗	✗
Over Voltage &Under Voltage Protection	✓	✓	✓	✓
Emergency Stop	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓
CP Signal Short Circuit Protection	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓
Lightning Protection	✓	✓	✓	✓
Contactor Adhesion Protection	✓	✓	✓	✓
Protection Degree	IP65	IP65	IP55	IP55
Environment Temperature	-25°C~+55°C			
Maximun Altitude	< 2000m			

✓ : Standard ✗ : Without

UKCA

1-Phase Un-smart Version

Wallbox Models	BCP-A1D-L-E	BCP-A2D-L-E	BCP-B1D-L-E	BCP-B2-L-E
				
Categorization	Un-smart Version			
Maximum Power	7.4kW			
Input Voltage /Output voltage	AC230 1-Phase			
Input Frequency	50/60Hz			
Meter	Metering Chip			
Display	LED Lights			
RFID	✗	✓	✗	✓
DLB	○	○	○	○
Wi-Fi	✗	✗	✗	✗
PEN	✓	✓	✓	✓
APP	✗	✗	✗	✗
Bluetooth	✗	✗	✗	✗
Over Voltage &Under Voltage Protection	✓	✓	✓	✓
Emergency Stop	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓
CP Signal Short Circuit Protection	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓
Lightning Protection	✓	✓	✓	✓
Contactor Adhesion Protection	✓	✓	✓	✓
Protection Degree	IP65	IP65	IP55	IP55
Environment Temperature	-25°C~+55°C			
Maximun Altitude	< 2000m			

✓ : Standard ○ : Optional ✗ : Without