



Smart Home Charger



7.4kW to 22kW



1 connector



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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 IP65 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

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.



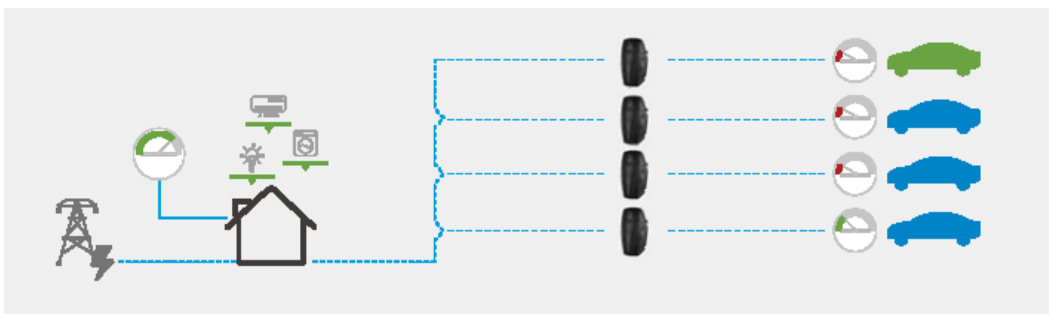
View historical charging records.





Setting monthly maximum charging values.

► With Dynamic Load Balancing

Main supply protected



Smart Home Charger (CE)

Type	1-Phase Smart Version	3-Phase Smart Version
Wallbox Models	BCP-A2N-L	BCP-AT2N-L
Picture		
Categorization	Smart Version	Smart Version
Maximum power	7.4 kW	22 kW
Input Voltage/Output Voltage	AC230 1-Phase	AC400 3-Phase
Input Frequency	50/60 Hz	50/60 Hz
Meter	Metering Chip	Metering Chip
Display	LED Lights	LED Lights
RFID	✓	✓
Wi-Fi	✓	✓
APP	✓	✓
Bluetooth	✓	✓
Over Voltage & Under Voltage Protection	✓	✓
Emergency Stop	✓	✓
Over Current Protection	✓	✓
CP Signal Short Circuit Protection	✓	✓
Over Temperature Protection	✓	✓
Lightning Protection	✓	✓
Contactors Adhesion Protection	✓	✓
Protection Degree	IP65	IP65
Environment Temperature	-25°C ~ +55°C	-25°C ~ +55°C
Maximum Altitude	< 2000m	< 2000m

Electrical	
Charging Capacity	1.3 kW – 7.4 kW / 4.1 kW – 22 kW
Charger Mode	Mode 3 (IEC61851-1)
Output Power	Selectable 1-phase or 3-phase, 230-400 V, 6A-32A, 50-60Hz
Socket Type	Type 2 Socket
Protection and certification	
Build-in RCD	DC 6 mA leakage sensor built-in
Socket	IP 65, IK 10
Housing Fire Ratings	V0
Operating Temperature	-25°C ~ +50°C
Compliance	IEC61851-1, IEC61851-21-1, IEC61000-4 CE EMC EU/2024.CE Low Voltage EU/2014/35
Certificate	CE
Connectivity	
Authorization	Auto-start standard / RFID Card Option
Status Indication	LED ring
WLAN Communication	WiFi / Bluetooth 4.2 option
Charging Protocol	OCPP1.6-J
Mechanical	
Housing	Plastic
Dimension	W278 x H360 x D152 mm
Mounting	Wall or Pole
WIFI	
Operating Frequency Range	2412 – 2484 MHz
Wi-Fi Protocols	IEEE 802.11 b/g/n
Channels	13
TX Power	<20dbm
EIRP	0.459
TX bandwidth	20 MHz/40MHz
Modulation type	OEDM & DSSS
Transmitting Duty Cycle	10%
Bluetooth BLE	
Sensitivity @ 30.8% PER	-93 dbm
Co-channel C/I	+10 db
RF Power Control Range	-12 ~ 9 dbm
NFC	
Modulation Type	ASK
Operating Frequency	13.56 MHz
H-field strength	21.31 dBuA/m @ 3m distance
Antenna Type	Coil Antenna