

ZHEJIANG BENYI ELECTRICAL CO., LTD.

Address: Wenzhou Daqiao Industry Park, Yueqing City Zhejiang Province,325603 China.

TEL: +86-577-5717 7008 Email: benyi@zjbeny.com

VERSION: 20220729

For the latest version of specification, please refer to www.beny.com or contact to benyi@zjbeny.com We reserve the right to explain the terms of specification.







BCPM Series EV chargers have an IP66 patented designcase for outdoor and indoor use.



The type 2 socket with shutter in acccordance 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.



Model Number

EV Charger Selection Guide

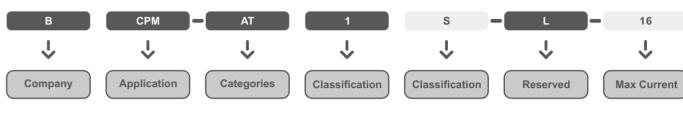
CPM:

Home

Charging



EV Charger Model



Autostart

2: With RFID

B: BENY Electric

A:
1-Phase
Tethered

B:
1-Phase
Socket

AT:
3-Phase
Tethered

BT:
3-Phase
Socket

None:
Without
The
Following
Functions
D:
With DLB
Function
S:

Smart Version N: Smart Version with DLB Function Blank: 32A

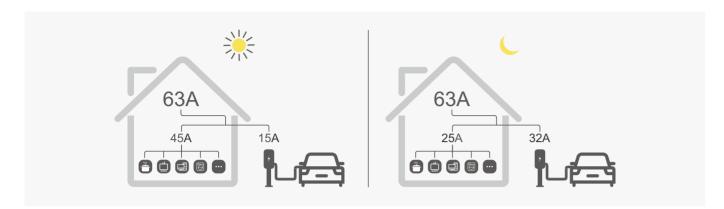
Reserved

16: 16A

Functions Explain

EV Charger Selection Guide



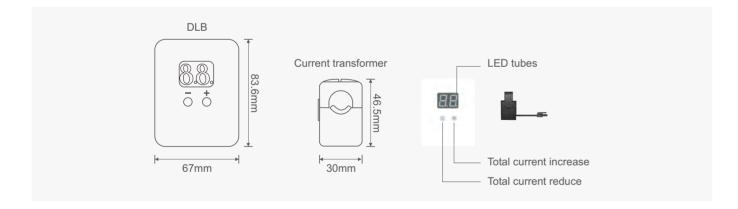


(V)

Dynamic Load Balancing

DLB (Dynamic Load Balancing) is available in the BCPM series AC EV Charger for home use, when the EV charger is working with other household appliances at the same time, the DLB box can maintain the dynamic balance of the total household current and ensure the safety of electricity to avoid home over load.

Set the Max current value of the main line on the DLB box. The charger will read this current value and automatically adjust the charging current (6A-32A) according to the idle load quota, so that the total household current will not be overloaded due to charging. This function can effectively use the power supply without providing additional power for the charging or home line update.



RFID(Radio Frequency Identification Card)

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



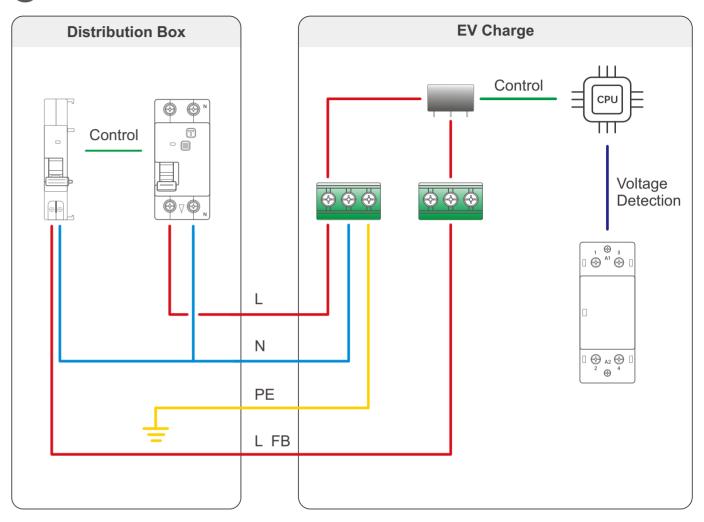
Functions Explain

EV Charger Selection Guide





Contactor Adhesion Protection



• Single-Phase



• Three-Phase



About contactor adhesion protection and why?

When the contactor in the charger is stuck due to current or short-circuit failure, the charger gun or the wires in the socket type charger will be live, brings the danger of electric shock to people.

The charger with contactoer adhesion protection can avoid the danger.

How contactor adhesion protection works?

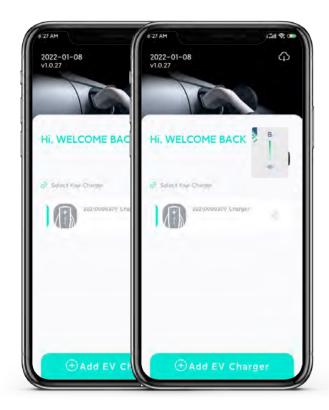
The main control chip of the charger keeps detecting the voltage of the contactor output;

If there is an AC voltage is detected at the output of the contactor when the charger is not in operating.

Then the charger will run the fault protection routine to alarm the lights and control the on-board relay to close.

As shown in the figure, the trip unit will drive the leakage protector to trigger and disconnect the power supply.





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;
- View historical charging records;
- Setting monthly maximum charging values;
- Firmware update;

Specifications

EV Charger Selection Guide





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	TYPE A + DC6mA leakage sensor built-in
Socket	IP66, 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



Authorization	Auto-start standard / RFID card option
Status Indication	LED ring
WLAN Communication	Wi-Fi / Bluetooth 4.2 option



Mechanical

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

Specifications

EV Charger Selection Guide



🔊 WIF

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

EV Charger Selection Guide



• 1-Phase Un-smart Version

Wallbox Models	BCPM-B1-L	BCPM-B2-L	BCPM-B1D-L	BCPM-B2D-L
	5	5	5	8
Categorization		Un-sma	nrt Version	
Maximum Power		7.	4kW	
Input Voltage /Output voltage		AC230	1-Phase	
Input Frequency		50/	60Hz	
Meter	Metering Chip			
Display		LED	Lights	
RFID	8	O	8	Ø
DLB	8	8	0	0
Wi-Fi	8	8	8	8
APP	×	8	×	×
Bluetooth	×	×	×	×
Over Voltage &Under Voltage Protection		O	Ø	
Emergency Stop	Ø	Ø	Ø	O
Over Current Protection	Ø	0	Ø	Ø
CP Signal Short Circuit Protection	O	0	Ø	Ø
Over Temperature Protection	O	Ø	Ø	Ø
Lightning Protection	Ø	O	O	Ø
Contactor Adhesion Protection	O	Ø	Ø	Ø
Protection Degree	IP66			
Environment Temperature	-25°C~+50°C			
Maximun Altitude	2000m			

Model Selection

EV Charger Selection Guide



• 1-Phase Smart Version

Wallbox Models	BCPM-B1S-L	BCPM-B2S-L	BCPM-B1N-L	BCPM-B2N-L	
	\$ D	B	5	5	
Categorization	I	Smart	Version		
Maximum Power		7.4	kW		
Input Voltage /Output voltage		AC230	1-Phase		
Input Frequency		50/6	60Hz		
Meter		Metering Chip			
Display		LED Lights			
RFID	8	Ø	8	Ø	
DLB	8	8	0	0	
Wi-Fi	Ø	\bigcirc		Ø	
APP					
Bluetooth	O	\bigcirc	⊘	Ø	
Over Voltage &Under Voltage Protection		O	O	O	
Emergency Stop	(Ø	O	O	
Over Current Protection	O	Ø	Ø	Ø	
CP Signal Short Circuit Protection	O	Ø	Ø	0	
Over Temperature Protection	0	Ø	Ø	Ø	
Lightning Protection	O	Ø	O	O	
Contactor Adhesion Protection	Ø	Ø	Ø	Ø	
Protection Degree	IP66				
Environment Temperature	-25°C~+50°C				
Maximun Altitude	2000m				

Model Selection

EV Charger Selection Guide



• 3-Phase Smart Version

Wallbox Models	BCPM-BT1S-L	BCPM-BT2S-L	BCPM-BT1N-L	BCPM-BT2N-L
	8	3	\$0 -	80
Categorization		Smart	Version	
Maximum Power		22	2kW	
Input Voltage /Output voltage		AC400	3-Phase	
Input Frequency		50/	60Hz	
Meter	Metering Chip			
Display	LED Lights			
RFID	8	O	8	Ø
DLB	8	8	0	0
Wi-Fi	Ø	Ø	O	Ø
APP			O	
Bluetooth	\bigcirc	Ø	O	O
Over Voltage &Under Voltage Protection		O		O
Emergency Stop	Ø	Ø	Ø	Ø
Over Current Protection	Ø	O	0	Ø
CP Signal Short Circuit Protection	Ø	0	0	0
Over Temperature Protection	Ø	0	0	0
Lightning Protection	O	Ø	O	O
Contactor Adhesion Protection	Ø	0	0	O
Protection Degree	IP66			
Environment Temperature	-25°C∼+50°C			
Maximun Altitude		2	000m	