



# OCPP AC Charger

## 7.4kW / 22kW



**Datasheet**

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⚠️ If the models and specifications in this product catalogue change due to product updates, we will not provide prior notification.



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# Product Overview

Have enjoyable charging experience with the Beny wall-mounted OCPP AC charger, certified by authoritative associations. It is designed to be intelligent, reliable, convenient, and efficient. Control your charger by smart app and various connectivity.



# OCPP AC Charger

## Electrical

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

## Protection and certification

<b>Build-in RCD</b>	DC6mA Leakage Sensor Built-in
<b>Protection Degree</b>	IP65, IK10
<b>Housing Fire Ratings</b>	V0
<b>Operating Temperature</b>	-25°C~+55°C
<b>Compliance</b>	IEC61851-1, IEC61851-21-2
<b>Certificate</b>	CE, CB, UKCA

## Connectivity

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

## Mechanical

<b>Housing</b>	Plastic
<b>Dimension</b>	W169 x H380 x D151/201 mm
<b>Mounting</b>	Wall or Pole

## WIFI

<b>Operating Frequency Range</b>	2412 - 2484MHz
<b>WI-FI Protocols</b>	IEEE 802.11 b/g/n
<b>Channels</b>	14
<b>TX Power</b>	18.5~20.5dBm
<b>EIRP</b>	0.459
<b>TX bandwidth</b>	20MHz/40MHz
<b>Modulation type</b>	OFDM & DSSS
<b>Transmitting Duty Cycle</b>	10%

## BlueTooth BLE

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

## NFC

<b>Modulation Type</b>	ASK
<b>Operating Frequency</b>	13.56MHz
<b>H-field strength</b>	13.29 dBuA/m@3m distance
<b>Antenna Type</b>	PCB antenna (coil)

# Model Selection



4G

<b>Frequency Bands:</b>	LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28 LTE-TDD: B38/B39/B40/B41
<b>Data:</b>	LTE-FDD: Max. 150 Mbps (DL)/Max. 50 Mbps (UL) LTE-TDD: Max. 130 Mbps (DL)/Max. 30 Mbps (UL)
<b>Output Power:</b>	LTE-FDD: Class 3 (23 dBm ±2 dB) LTE-TDD: Class 3 (23 dBm ±2 dB)



3G

<b>Frequency Bands:</b>	WCDMA: B1/B2/B4/B5/B6/B8/B19
<b>Data:</b>	WCDMA: Max. 384 kbps (DL)/Max. 384 kbps (UL)
<b>Output Power:</b>	WCDMA: Class 3 (24 dBm +1/-3 dB)



2G

<b>Frequency Bands:</b>	GSM: B2/B3/B5/B8
<b>Data:</b>	EDGE: Max. 296 kbps (DL)/Max. 236.8 kbps (UL) GPRS: Max. 107 kbps (DL)/Max. 85.6 kbps (UL)
<b>Output Power:</b>	GSM850: Class 4 (33 dBm ±2 dB) GSM850 8-PSK: Class E2 (27 dBm ±3 dB)

OCPP AC Charger	BCP-A2N-P	BCP-B2N-P	BCP-AT2N-P	BCP-BT2N-P
				
Categorization	Tethered	Socket	Tethered	Socket
Maximum Power	7.4kW		22kW	
Input Voltage /Output voltage	AC230 1-Phase		AC400 3-Phase	
Input Frequency	50/60Hz			
Meter	Built-in metering chip + external MID meter (optional)			
Display	LED Lights			
Protection Degree	IP65	IP55	IP65	IP55
Environment Temperature	-25°C~+55°C			
Storage temperature	-40°C~+85°C			
Maximum Altitude	<2000m			
Input Current	32A			
Socket Type	/	Type 2	/	Type 2
Maximum Output Current	32A			
Efficiency	about 100%			
Working humidity	95% non-condensing			
Cable length	6 m (Supports customization of other lengths)			
Standards	IEC61851-1,IEC61851-21-2			
Communication interface	4G\Wireless\LAN Port			
Communication protocol	OCPP1.6-J			
User management	Bluetooth/Wifi/Smart APP			
Starting	Auto-start standard / RFID card			



RFID	✓	✓	✓	✓
DLB	○	○	○	○
Wi-Fi	✓	✓	✓	✓
Ethernet	✓	✓	✓	✓
Bluetooth	✓	✓	✓	✓
4G	○	○	○	○
Over Voltage & Under Voltage Protection	✓	✓	✓	✓
Emergency Stop	✓	✓	✓	✓
Over Current Protection	✓	✓	✓	✓
CP Signal Short Circuit Protection	✓	✓	✓	✓
Over Temperature Protection	✓	✓	✓	✓
Lightning Protection	✓	✓	✓	✓
Contactors Adhesion Protection	✓	✓	✓	✓

✓ : Standard ○ : Optional

## OCPP Specification

Version	OCPP1.6-J
TLS	support
HTTP Basic Authentication	support
Feature Profiles	Core, Firmware Management, Local Auth List Management, Remote Trigger, Reservation, Smart Charging
Get Diagnostics Protocol	FTP
Update Firmware Protocol	HTTP

## Security Profile

Level	Details	Yes or No
Security Profile 0	Regular OCPP 1.6J without security	√
Security Profile 1	OCPP 1.6J with Basic Authentication	√
Security Profile 2	OCPP 1.6J with TLS (Only Server-side certificate) and Basic Authentication	√
Security Profile 3	OCPP 1.6J with TLS using Server and client-side certificates	X

## OCPP Configurations

Name	Support	(R) / (RW)
Allow Offline Tx For UnknownId	YES	RW
Authorization Cache Enabled	YES	RW
Authorize Remote Tx Requests	YES	RW
Blink Repeat	NO	RW
Clock Aligned DataInterval	YES	RW
Connection Time Out	YES	RW
Connector Phase Rotation	YES	RW
Connector Phase Rotation MaxLength	YES	R
Get Configuration MaxKeys	YES	R
Heartbeat Interval	YES	RW

## OCPP Configurations

Light Intensity	NO	RW
Local Authorize Offline	YES	RW
Local Pre Authorize	YES	RW
Max Energy OnInvalidId	NO	RW
Meter Values Aligned Data	YES	RW
Meter Values Aligned Data Max Length	YES	R
Meter Values Sampled Data	YES	RW
Meter Values Sampled Data Max Length	YES	R
Meter Value Sample Interval	YES	RW
Minimum Status Duration	YES	RW
Number Of Connectors	YES	R
Reset Retries	YES	RW
Stop Transaction On EVSide Disconnect	YES	RW
Stop Transaction OnInvalidId	YES	RW
Stop Txn Aligned Data	NO	RW
Stop Txn Aligned Data Max Length	NO	R
Stop Txn Sampled Data	NO	RW
Stop Txn Sampled Data Max Length	NO	R
Supported Feature Profiles	YES	R
Supported Feature Profiles Max Length	YES	R
Transaction Message Attempts	YES	RW
Transaction Message Retry Interval	YES	RW
Unlock Connector On EVSide Disconnect	YES	RW
Web Socket Ping Interval	YES	RW
Local Auth List Enabled	YES	RW
Local Auth List Max Length	YES	R
Send Local List Max Length	YES	R

## OCPP Configurations

Reserve Connector Zero Supported	YES	R
Charge Profile Max Stack Level	YES	R
Charging Schedule Allowed Charging RateUnit	YES	R
Charging Schedule Max Periods	YES	R
Connector Switch 3 to 1 Phase Supported	YES	R
Max Charging Profiles Installed	YES	R

## Custom Configuration Items

Items	Type	Accessibility	Range	Default	Explain
DLBEnabled	boolean	RW	false/true	false	false: Disable DLB All the following configurations will become invalid true: Enable DLB
DLBAPPConfigEnabled	boolean	RW	false/true	false	false: "DLBNormalModeMaxCurrent", "DLBPVModeMaxGridCurrent" will become invalid
DLBType	integer	R	0-2	0	According to the type of DLB box already connected to the EV charger, the APP displays the corresponding configuration page. The value of this configuration item. 0 is Normal DLB 1 is Solar DLB 2 is External edge equipment
DLBNormalModeMaxCurrent	integer	RW	0-99	40	To set the max current of DLB
DLBNormalExtremeModeEnabled	boolean	RW	false/true	false	False: Extreme mode disabled True: Extreme mode enable
DLBPVModeMaxGridCurrent	integer	RW	0-99	0	To set the max grid current 0: Pure photovoltaic mode 1-98: Hybrid mode (corresponding to 1-98A) 99: Full speed mode
DLBPVModeNightSpeedEnabled	boolean	RW	false/true	false	Full speed mode at night under PV mode true: Full-speed mode charging will start automatically from 8:00 pm to 6:00 am.
DLBDataTransferInterval	integer	RW	0-9999	0	0: Disable 1-9999: DLB current will be reported in DataTransfer during charging.

## Custom Configuration Items

DLBDataTransferAnytimeEnabled	boolean	RW	false/true	false	Fales: DLBDataTransfer will be not reported True: DLBData transfer will be reported real time.
DLBPVModeMaxSpeedStart	integer	RW	0-23	20	
DLBPVModeMaxSpeedStop	integer	RW	0-23	6	
ChargePointURL	csl	RW			max length 200 byte
ChargePointVendor	csl	RW			max length 19 byte
ChargePointModel	csl	RW			max length 49 byte
ChargePointAuthKey	csl	RW			max length 49 byte
ChargePointAuthEnable	boolean	RW			
RandomDelayMin	integer	RW	0-1800	0	Minimum random delay at each start of charging (Only supported for single connector models)
RandomDelayMax	integer	RW	0-1800	0	Maximum random delay at each start of charging (Only supported for single connector models)
UserCurrentLimit	integer	RW	6-32(one socket) 12-64(two socket)	32(one socket) 64(two socket)	
EmergencyStopEnable	boolean	RW	false/true	true	
GndDetectEnable	boolean	RW	false/true	true	