



# KUGA FLOOR MOUNTED AC EV CHARGER

2 x 22kW

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## PRODUCT OVERVIEW

This is a mode 3 type AC EV Charger which is designed according to IEC-61851-21-2 standard. Experience effortless interaction with its 5.0-inch LCD Screen interface. Take control of your charger via a smart app and various connectivity choices.

**KugaCharge Logo**

**LCD Screen**

**Type 2 Socket**

**RFID**

**LED Light**

**Emergency Button Switch**

**AC Gun**

## PRODUCT ADVANTAGES



5.0-inch LCD Screen



IP54 Rating



Wi-Fi/Ethernet /Bluetooth/4G



T2S Socket Option



DLB and Solar Compatible



Full Protection



## Wifi

Operating Frequency Range	2412 - 2484MHz
WI-FI Protocols	IEEE 802.11 b/g/n
Channels	14
TX Power	18.5-20.5dBm
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	13.29 dBuA/m@3m distance
Antenna Type	PCB antenna [coil]



## 4G

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

## 3G

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

## 2G

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

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Charger Units	BCPCV-DT2N-P	BCPCV-CT2N-P
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Maximum Power	2*22KW	2*22KW
Input Voltage/Output voltage	AC400V 3-Phase	AC400V 3-Phase
Input Frequency	50/60Hz	
Tethered/Socket	Socket	Tethered
Meter	Built-in Electric Meter	
Display	Five-inch LCD Screen + LED Lights	
Charging protocol	OCPP1.6-J	
Incoming line method	Single Input	
Rate Charging Current	2*(6-32A)	
T2S Socket	<input type="radio"/>	<input checked="" type="radio"/>
RFID	<input checked="" type="radio"/>	<input checked="" type="radio"/>
DLB	<input type="radio"/>	<input type="radio"/>
Wi-Fi	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Ethernet	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Bluetooth	<input checked="" type="radio"/>	<input checked="" type="radio"/>
4G	<input type="radio"/>	<input type="radio"/>
Over Voltage & Under Voltage Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Emergency Stop	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Over Current Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>
CP Signal Short Circuit Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Over Temperature Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Lightning Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Contactor Adhesion Protection	<input checked="" type="radio"/>	<input checked="" type="radio"/>

Standard    Optional    Without

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Charger Units	BCPCV-DT2N-P	BCPCV-CT2N-P
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Gross weight	43KG	47KG
Protection Degree	IP54	
Environment Temperature	-30°C~+55°C	
Storage Temperature	-40°C~+85°C	
Charger Dimension	350mm*220mm*1422mm	
Maximum Altitude	<2000m	

## OCPP SPECIFICATION

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

## 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	✗

## 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 MaKeys	YES	R
Heartbeat Interval	YES	RW
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	RW
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
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





## OCPP CONFIGURATIONS

Name	Support	(R) / (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	NO	RW
Web Socket Ping Interval	YES	RW
Local Auth List Enabled	YES	RW
Local Auth List Max Length	NO	R
Send Local List Max Length	YES	R
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", "DLBPMODEMaxGridCurrent" 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
DLBPMODENightSpeedEnabled	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.
DLBDataTransferAnvtimeEnabled	boolean	RW	false/true	false	Fales: DLBDataTransfer will be not reported True: DLBData transfer will be reported real time.
DLBPMODEMaxSpeedStart	integer	RW	0-23	20	
DLBPVModeMaxSpeedStop	integer	RW	0-23	6	
ChargePointURL	cs1	RW			max length 200 byte
ChargePointVendor	cs1	RW			max length 19 byte



## CUSTOM CONFIGURATION ITEMS

Items	Type	Accessibility	Range	Default	Explain
ChargePointModel	cs1	RW			max length 49 byte
ChargePointAuthKey	cs1	RW			max length 49 byte
ChargePointAuthEnable	boolean	RW			
ChargePointQRCode 1	cs1	RW			(Only supported with LCD models)
ChargePointQRCode 2	cs1	RW			(Only supported with LCD models)
UserCurrentLimit	integer	RW	6-32 one socket 12-64   two socket	6-32 one socket 12-64   two socket	
EmergencyStopEnable	boolean	RW	false/true	true	
GndDetectEnable	boolean	RW	false/true	true	