

EV CHARGER BROCHURE

Khons makes charging
easy and convenient.



G2(S) EV CHARGER BROCHURE



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Made in China

G2(S) User Manual

Mode 2 Portable EV Charger
G2S-Bluetooth Version



- G2-KHONS-PA-16A
- G2-KHONS-PA-32A
- G2-KHONS-PA-40A
- G2-KHONS-PE-1P-16A
- G2-KHONS-PE-1P-32A
- G2-KHONS-PE-3P-16A
- G2-KHONS-PE-3P-32A

1. Appearance

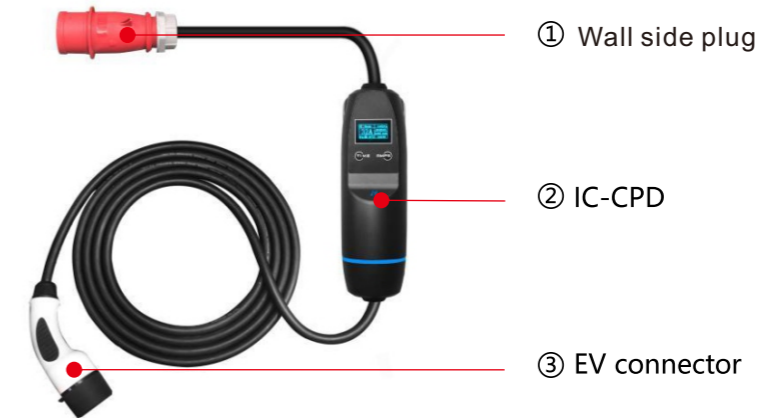


Figure 1 Schematic

Datasheet

Phase	Single phase	Three phase
Input/output voltage	110~250Va.c.	110~450Va.c.
Frequency	50Hz/60Hz	50Hz/60Hz
Max. current	16A/32A	16A/32A
EV connector	Type 1 & Type 2	Type 2
RCD	Type A	Type A+6mA d.c.
IP degree	IP65	IP65
Operating temperature	-25°C~+50°C	-25°C~+50°C
Relative humidity	5%RH~95%RH	5%RH~95%RH
Altitude	<2000m	<2000m
Static power	<2W	<2W
Dimension	278mm(L)x81mm(D)	278mm(L)x81mm(D)
Standards	IEC/EN 62752	IEC/EN 62752
Certificate	CE	CE

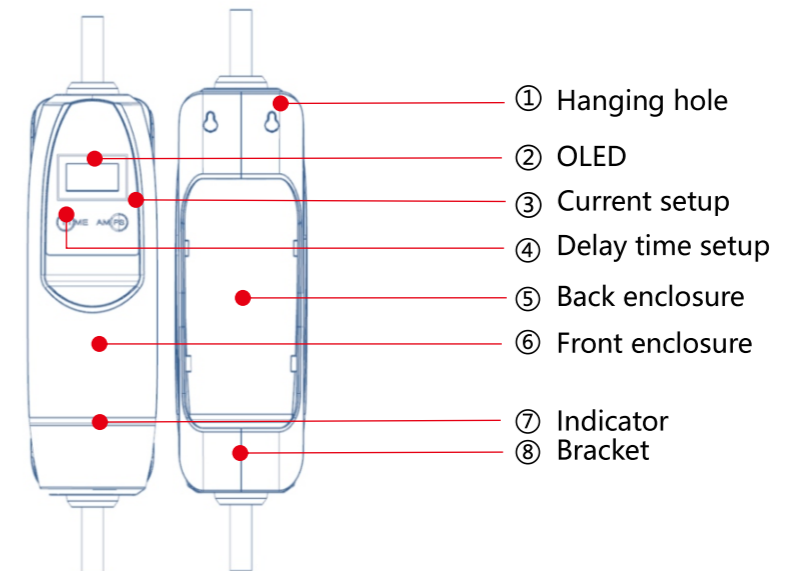


Figure 2 Front and Back

2. Display Interface

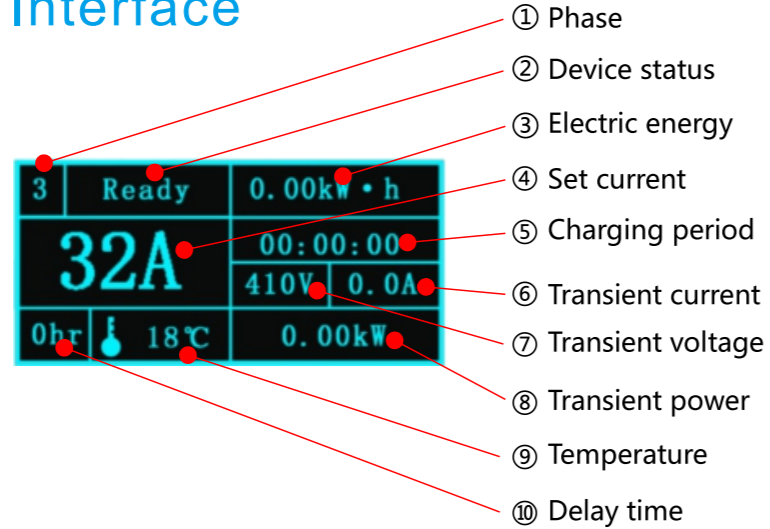


Figure 3 Display interface

Device status	Indicator/color	Description
Ready	Always blue	The wall side plug is plugged into the power supply but the EV connector is disconnected.
Connect	Blink blue	The wall side plug is plugged into the power supply and the EV connector is connected.
Charge	Cycle blink blue	The device is charging.
NoNet0/1*	Any	Bluetooth is not ready.
NoNet2*	Any	Bluetooth is waiting for connect.
Done*	Any	Bluetooth is connected.

Notice 1 The OLED will turn off automatically when the device is not operated for 2 minutes.

Notice 2 The OLED will turn on automatically when the device status has been changed or the device is operated.

*, only available for G2S.

3. EV Charging Instruction

Picture	Step	Description
	I	Insert the wall side plug to the electrical outlet.
	II	Press the "APMS" button to set the charging current.
	III	Press the "TIME" button to set the charging start time if needed.
	IV	Plug the EV connector into the socket. Use the App to activate the charging when the device is under Bluetooth mode.
	V	Please confirm the device is under normal working status: the ring light is flashing.

Notice 3 The gears of the charging current is cyclic.

Notice 4 The maximum delay time is 9 hours. The default delay time is zero when the device is delivered.

Notice 5 The default charging current is the minimum current.

4. Warning message

When the IC-CPD work incorrectly, the corresponding parameters(i.e., ① Phase, ⑦ Transient voltage, ⑨ Temperature of figure 3) in the interface of the OLED will blink (i.e., warning message).

Details refer to follow.

Parameters	Description	Solution
Phase	Input voltage phase deviation exceeds 20°, or Power phase error.	check the wiring of power supply.
Temperature	The temperature of the device beyond 70°C but less than the upper temperature limit 80°C.	Check ambient temperature.
Voltage	Input voltage of the device beyond the upper voltage limit 265Va.c. for single-phase systems or 450Va.c. for three-phase systems.	Close the power supply and check distribution grid.
	Input voltage of the device is less than the lower voltage limit 85Va.c. for single-phase systems or 150Va.c. for three-phase systems.	

5. Error message

The error messages will appear on the OLED when the IC-CPD failed.

Details refer to follow.

Error Message	Description	Solution
Over temper!!!	The temperature of the device beyond the upper temperature limits 80°C.	Close power supply and contact the manufacturer or agents.
Power leak!!!	The leak current of the device beyond the special limits.	
Unknown board!!!	Original board is not used.	
Unknown cable!!!	The cables of the device was broken, or the cables can't match the device.	
Hardware error!!!	The hardware of the device was broken.	Close power supply and check electric vehicle.
Over current!!!	Output current of the device beyond the 1.3 time rated current.	
No ground!!!	The device was not grounded.	Close power supply and check the distribution grid.

6. Working mode (only available for G2S)

6.1 Bluetooth Control Mode

If the portable charger works in Bluetooth Control mode, the charger will not start charge even it is connected with an EV, it only works with KHONS APP or other compatible APP via Bluetooth. If you need the KHONS APP or if you want to develop your own APP ,please contact KHONS.

Bluetooth Control Mode is the default mode of portable charger.

Below picture shows the network structure of the portable charger's normal operation BLE mode



The BLE Module of charger works in Bluetooth BLE Server mode, which can be connected by a BLE Client. After connected by a client, charger will not broadcast itself, and could not be connected by other client,until the connection is disconnected.

6.2 Self-Control Mode

If portable charger works in self-control mode, the charger will start charge immediately when connected with an EV. In this mode , it'll work without any APP.

6.3 How to Switch Work Mode

6.3.1 Enter configuration mode

Press and hold the "Time" button of the charger, and then plug in the wall plug, then release the "Time" button within 2 seconds after the screen is turn on. Then the charger will enter the configuration mode, and will display 'Setting'.

Note: To enter the configuration mode, the following steps must be followed:

- (1) press and hold the "TIME" button.
- (2) plug in the wall plug to power on.
- (3) the button must be released within 2s after power on.

When the charger works in configuration mode, the network structure is as follows

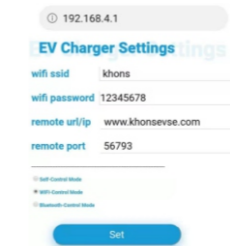


6.3.2 Connect AP of the charger

After entering configuration mode, the charger will provide a mini WIFI AP. Smart phone can search for the special SSID , normally the SSID is the Serial Number , like "P4QA0000B" , and connect with password "www.khonsevse.com" .

6.3.3 Enter the configuration page

After connecting the AP, open a browser, and enter <http://192.168.4.1>.



6.3.4 Fill in information

Fill in the configuration information and submit . When completed, the following message will appear 'Success!' .

When the configuration is complete, restart the charger . Then it will work.

6.3.5 Bluetooth specification

Bluetooth	Bluetooth 4.2 BLE Transmit : 0 dBm Receive: -93 dBm
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7.Disclaimer

The instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser' s purposes, the matter should be referred to the Khons company.

After sales services:

Khons provides 2 years warranty and life-long technical support. Please feel free to contact us for any quality issues via email : khons@cnkhons.com or call us via : +86 28 83128852 or visit our website to live a message: www.khonsevse.com.

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