EV CHARGER
BROCHURE

Khons makes charging
easy and convenient.

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K.H.O.N.S

G1(S) EV CHARGER
BROCHURE

G1(S) User Manual

Mode 2 Portable EV Charger

(* only available for G1S,the same applies to the following parts)

G1

G1S

KHONS-PA-16A
KHONS-PA-32A
KHONS-PE-1P-16A
KHONS-PE-1P-32A
G1S-KHONS-PE-3P-16A

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
EV connector	Type 1 & Type 2	Type 2
RCD	Type A	Type A
IP degree	IP 54	IP 54
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	199.2mm(L)x86.7mm(W)x57.8mm(H)	199.2mm(L)x86.7mm(W)x57.8mm(H)
Standards	IEC/EN 62752	IEC/EN 62752
Certificate	CE	CE

1. Appearance

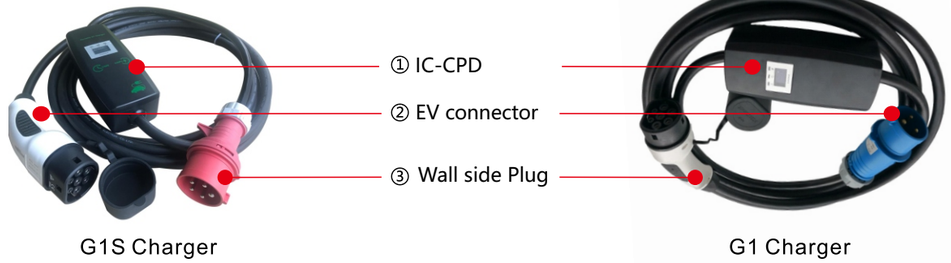

Figure 1 Schematic

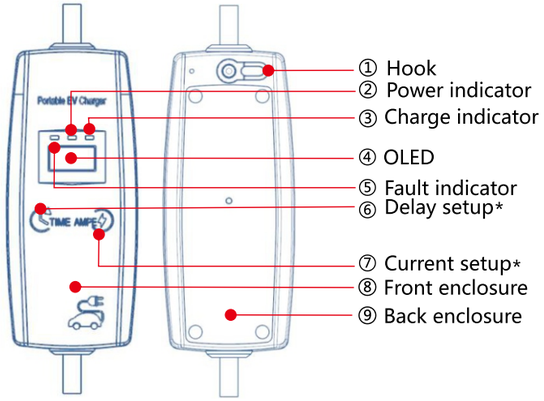

Figure 2 Front and Back

Indicator	Color	Device status
Power	Green	Ready or Connected or Charging
Fault	Yellow	Fault
Charge	Red	Charging

2. G1 Display Interface

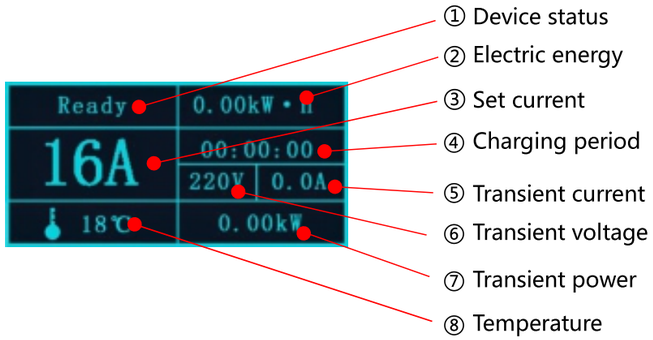

Figure 3 Display interface

Device status	Description
Ready	The wall side plug is plugged into the power supply but the EV connector is disconnected.
Connect	The wall side plug is plugged into the power supply and the EV connector is connected.
Charging	The device is charging.

3. G1 EV Charging Instruction

Picture			
Step	Ⅰ	Ⅱ	Ⅲ
Description	Insert the plug to the power supply.	Shake the IC-CPD to adjust the charging current.	Remove the protective cap of EV connector and insert the EV connector to the socket inlet of Electric vehicle.

Notice 1 The gears of the charging current is cyclic.

Notice 2 The default charging current is the minimum current.

Notice 3 Do not pull out the EV connector directly while the electric vehicle is charging.

4. G1S Display Interface

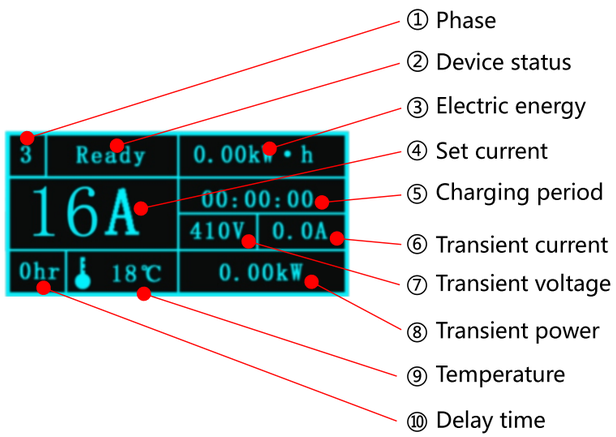

Figure 4 Display interface

Device status	Description
Ready	The wall side plug is plugged into the power supply but the EV connector is disconnected.
Connect	The wall side plug is plugged into the power supply and the EV connector is connected.
Charge	The device is charging.

Notice 4 The OLED will turn off automatically when the device is not operated for 2 minutes.

Notice 5 The OLED will turn on automatically when the device status has been changed or the device is operated.

5. G1S EV Charging Instruction

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

Notice 6 The gears of the charging current is cyclic.

Notice 7 The maximum delay time is 9 hours. The default delay time is zero when the device is delivered.

Notice 8 The default charging current is the minimum current.

6. Warning message

When the IC-CPD is used incorrectly, the corresponding parameters(i.e., ⑧ Temperature of figure 3， i.e., ① Phase, ⑦ Transient voltage, ⑨ Temperature of figure 4) 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.	

7. 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.	
Over current!!!	Output current of the device beyond the 1.3 time rated current.	Close power supply and check electric vehicle.
No ground!!!*	The device was not grounded.	Close power supply and check the distribution grid.

The following part is only available for G1:

Error Message	Analysis	Solution
Err128 Err112 Err082 Err052	The CP circuit of the IC-CPD or the electric vehicle is faulty.	Close power supply and contact the manufacturer or agents.
BOT	The temperature of the device exceeds 80°C.	Check the ambient Temperature.
OV	Input voltage of the device exceeds 265Va.c..	Check distribution grid and restart the device.
UV	Input voltage of the device is less than 85Va.c..	

8. Warranty term

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 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 web site to leave a message: www.khonsevse.com.