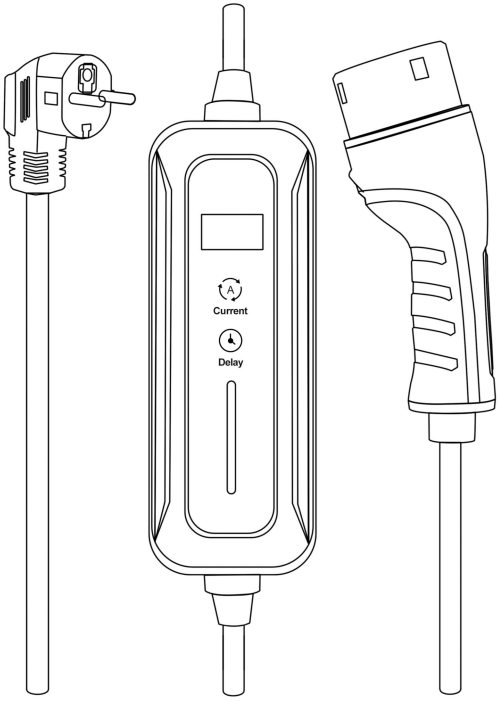
Mode 2 Portable EV Charger

Smart LED Display
Scheduled Charging
Adjustable Current
Electric Safety Protection



IP67
(Control Box)

-30°C ~ +50°C
(Operational
Temperature)

UV Resistance
(Cable)

Pressure Resistant
(Connector)

Please read this instruction carefully before using the product.

EV Portable Charger

Please carefully read the following instructions before charging your Electrical Vehicle, be aware of the hazards involved with electrical circuity and standard practices for preventing accidents.

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Introduction to the Portable EV Charger (Mode 2)

Improper operation maybe dangerous to the user' s safety or may cause a certain degree of damage to the hardware.

CAUTION:

- Do not submerge the control box in water.
- Do not step on, pull, fold or knot the cable.
- Do not drop the control box or place a heavy object on it.
- Do not place near high temperature object or under intense direct sunlight when charging.
- Do not operate the device in temperatures beyond its operating range of -30°C to +50°C.
- Please insert dust cover in place, when the device not in use.

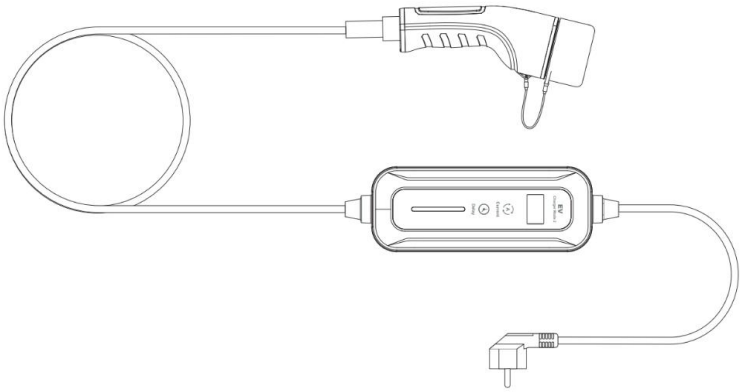
WARNING:

- Only for use under the condition of existing Residual-current device (RCD) protection breaker in the AC power supply source.
- Do not use this product if the flexible input power cable or EV charging cable is frayed, has broken insulation, or shows any other signs of damage.
- Only for use for EV charging.
- The product must be grounded.
- Do not use this device with an extension cord or adapter.
- Do not put fingers into the charging connector.
- Device contains no user serviceable parts. Do not attempt to repair the device yourself.
- If device fails to operate correctly in accordance with the operation manual, do not use this device. Contact dealer for repair or replacement.

DANGER

- Do not use this product if the flexible input power cable or EV charging cable is frayed, has broken insulation, or shows any other signs of damage.
- Do not disassemble or assemble the connector and change the internal parts
- Do not clean the products using chemicals or clean the EV car while charging.

Introduction to the Portable EV Charger (Mode 2)



Specifications:

Model	AC Plug	Cable Total Length	Voltage	Current	Connector Type
EVSE-PA16S	Germany	5m/7.5m	230V AC	6/8/10/13/16A	T2
EVSE-PA13U	UK	5m/7.5m	230V AC	6/8/10A	T2
EVSE-PA10E	Italy	5m/7.5m	230V AC	6/8/10A	T2
EVSE-PA10S	Switzerland	5m/7.5m	230V AC	6/8/10A	T2
EVSE-PA08F	France	5m/7.5m	230V AC	6/8A	T2
EVSE-PA06D	Denmark	5m/7.5m	230V AC	6A	T2

Precautions for charging current:

NOTE 1 In the following countries, Mode 2 is not allowed in public areas: Italy.

NOTE 2 In the following countries, for EV supply equipment equipped with a plug for household and similar use repeated continuous loads of long duration, shall be limited to 6 A: Denmark

NOTE 3 In the following countries, EV supply equipment equipped with a plug for household and similar use, if the charging cycle can exceed 2 hours, the maximum rated current is 8 A: France

NOTE 4 In the following countries, EV supply equipment equipped with a plug for household and similar use, if the charging cycle can exceed 2 hours, the maximum rated current is 10 A: Norway

NOTE 5 In the following countries, the use of IEC 60309-2 accessories is recommended for Mode 2 connections for more than 10 A: Italy

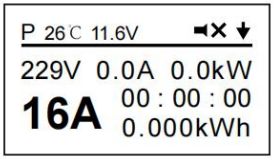
Introduction to the Portable EV Charger (Mode 2)

Features and Specifications:

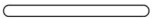
Standards	IEC62196 IEC 62752 EN50620 IEC62893
Connector Type	T2
Voltage	230V AC L/N/PE
Frequency	50 Hz
Delay	1/2/4/8H adjustment
Operating Temperature	-30°C ~ +50°C
Storage Temperature	-40°C ~ +85°C
Rated Residual Operating Current	I ∆n 30mA, DC 6mA
Operating Humidity	5%~95%RH (non-condensing)
Altitude	<2000m

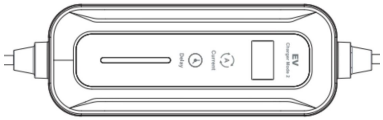
Operating Display and Technical Parameters

Model:



Explapation of the operating display

P 26℃	Circuit Board Temperature
11.6V	CP Voltage
	Vehicle no Connection
	Vehicle Connection
	PE Detection
	PE no Detection
229V	Current AC Input Voltage
0.0A	Current Charging Current
0.0kW	Current Charging Power
16A	Preset Charging Current
00 : 00 : 00	Current Charging Time
0.000kWh	Current Charging Capacity
 Current	Current Setting Button
 Delay	Delay Time Setting Button
	Display Light

Control box: 

Technical Parameters

Dimensions (LxWx H)	220 x 85 x 54mm
Weight	5m ≈ 2.1 kg (1m ≈ + 0.19Kg)
Protection Degree (Control box)	IP67
Operating Temperature	-30°C ~ +50°C

Explanation of the " ⏚ " and " ⏚ " symbol

Users must check the PE detection mark "⏚" on the display before each use.(PE meaning protective conductor)

Condition 1. If the Mark "⏚" is displayed on the screen, it indicates that the charger shall verify the presence of the upstream PE, and the charging process will only begin when the upstream PE is present.

ATTENTION: if the mark "⏚" appears, it means that the upstream PE has not been detected and charging cannot be started.

Condition 2. If the Mark "⏚" is NOT displayed on the screen, it indicates that the charger has no function to verify the presence of the upstream PE, and can be charged whether the PE can be detected or not.

ATTENTION: It is strongly recommended that users charge under condition 1. Condition 2 has certain security risks due to the absence of PE. So condition 2 should only be used under the premise that users can ensure safety and in special circumstances where PE does not exist in the power system.

Deactivate PE Detection :

1. Press “Current” and “Delay” together for 4s together.
2. Select “No grounding” and press “Current” and “Delay” for 4s together to exit setup.

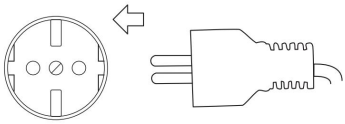
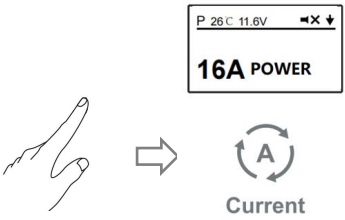
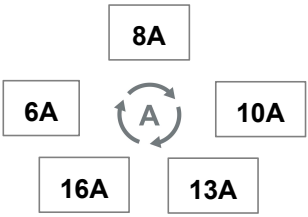
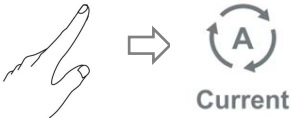
Current Button： Upward adjustment
Time Button： Downward adjustment

Reactivate PE Detection:

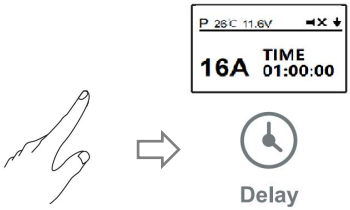
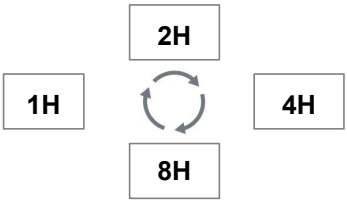
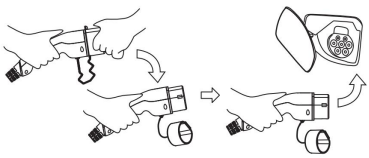
1. Press “Current” and “Delay” for 4s together.
2. Select “ Yes grounding ” and Press “Current” and “Delay” for 4s together to exit the setup.

Current Button ： Upward adjustment
Time Button ： Downward adjustment

Start Charging

Step	Illustration	Operation
1. Insert the plug into the correct power supply socket.		Insert the plug into the correct power supply socket. Lighting strip turns green.
2. Press the “Current” switch button for 3 seconds		Enter setting the switch current mode.
3. Continue to press the button briefly. The current will be changed. switch between 6-8-10-13-16A		Set up current per user’s requirement
4. Press the “Current” button for 3s.		Current set up complete

Start Charging

Step	Illustration	Operation
5. Press the “Delay” switch button for 3 seconds.		Enter setting the delay time mode
6. Continue to press the button briefly.The time will be changed. Switch between 1/2/4/8H		Set up delay time per user’s requirement
7. Press the “Delay” button for 3s.		Delay time set up complete
8. Insert the connector into the EV charging port.		Remove the protective cap and fully insert the charging connector into the EV charging port. Lighting strip turns blue.

Start Charging

Step	Illustration	Operation
9. Start charging		Start charging. Lighting strip displays downward animation in blue.

Please complete current or time delay setting within 4 seconds during each step, otherwise the setting feature will time out.

Notice:

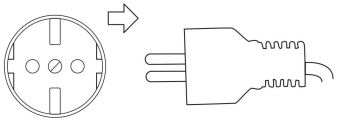
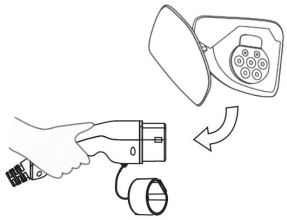
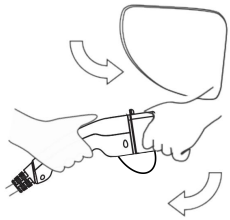
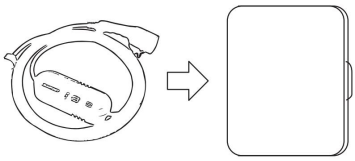
To cancel the timer setting, either:
1. Directly disconnect the plug from the outlet socket.
2. Or press the “Delay” button for 5s.

CAUTION

In order to switch charging current, please make sure the AC power plug is firmly inserted into the socket and the vehicle side charging plug is disconnected.

How to Use – Stop Charging

Stop Charging

Step	Illustration	Operation
1.		Disconnect the plug from the power supply socket.
2.		Disconnect the charging connector from the EV car.
3.		Cover the protective rubber cap of the EV charging connector and close the protective lid of EV charging port.
4.		Put the portable charger into the bag.

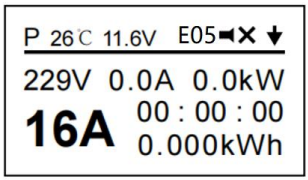
Display Light Status

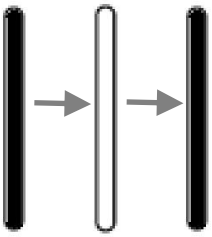
Display Light Status

Indicator Light Status

Working Condition	Light State		
	Red	Green	Blue
Power on	Off	On	Off
Ready for Charging	Off	Off	On
Charging	Off	Off	Downward Animation
Charging Completed	Off	Off	On

Fault Status Display Light Status





Indicator light flashing

Fault Code Classification

Fault codes	Red	Description
E01	Flash for 1	Over-Voltage Protection
E02	Flash for 2	Under-Voltage Protection
E03	Flash for 3	Over-Current Protection
E04	Flash for 4	Over-Temperature Protection
E05	Flash for 5	Ground Fault
E06	Flash for 6	CP--Voltage Protection
E07	Flash for 7	Relay Protection
E08	Flash for 8	Leakage Protection
E09	Flash for 9	Relay Adhesion Protection
E10	Flash for 10	Abnormal Leakage Self Check
E11	Flash for 11	Vehicle Diode Protection
E12	Flash for 12	Charging Gun Temperature Protection

Common Fault Handling

Exclusion process:
1. Follow the fault code prompts on the display screen.
2. Find the fault code displayed on the display screen corresponding to the fault codes "EXX". Solve problems according to the common troubleshooting table.

For example:
The code "E05" represents "ground protection".

Solution:
Confirm whether the AC plug has poor contact and whether the ground wire is connected correctly.

Fault treatment Table

Faultcodes	Fault treatment measures
No power supply	Check the input voltage to ensure that the input connection is correct and reliable.
E01/E02	Check whether the input voltage is within the rated voltage range and whether the input cable meets the requirements to ensure that the input connection is correct and reliable.
E03	Check whether the output current exceeds the rated requirements .
E04/E12/E13	Check whether the charger is hot. Keep away from the heat source and the ambient temperature is too high.
E05	Check whether the AC plug is in poor contact and the ground cable is properly connected.
E06	Check whether the CP terminal is short-circuited or improperly connected due to foreign objects.
E07	Internal relay failure,Contact dealer for repair or replacement !
E08/E10	Check whether the charging cable is damaged or flooded.
E11	Check whether the CP terminal has foreign matters.