

# Portable Charging for EV (SAE J1772)

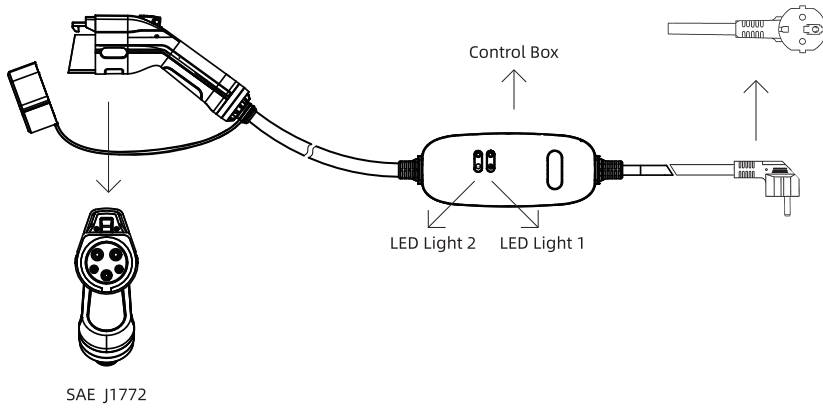
User Manual

If you have any questions, please contact the seller.

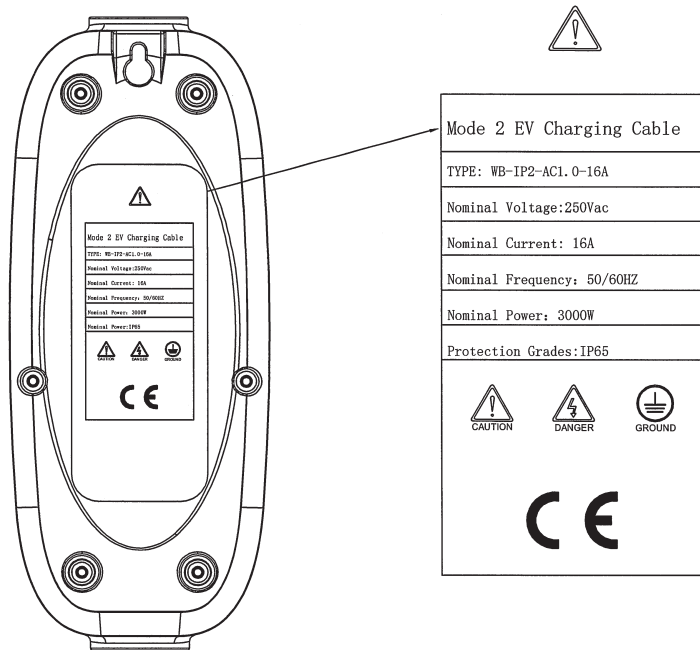
Please read all instructions carefully before use

# Portable EV Charging

## Main part



SAE J1772



## Quick Use Steps

### A. How to start charging

- Firmly insert the power plug into the outlet on the wall. (Ensure the outlet socket has a Max charging current of no more than 16A.)
- Insert the Type 1 plug into the inlet on the electric vehicle.
- The device starts charging automatically after the LED Light 1 begins to blink regularly.

Schuko socket



1. Only use on suitable socket@  
Firmly plug into the right outlet  
on the wall according to the  
MAX current.

2. Insert the Type 1 plug into the inlet on the electric vehicle.  
3. The device starts charging automatically after the LED Light 1 keeps blinking regularly

### B. How to stop charging

- Disconnect the power plug from the outlet.
- Insert the Type 1 plug into the inlet on the electric vehicle.
- The device starts charging automatically after the LED Light 1 keeps blinking regularly

Schuko socket



Disconnect the power plug  
from the outlet.

Disconnect the plug  
from the vehicle inlet.

Put the charger away.

# Portable EV Charging

## Parameters

Charging standard for EV	Type 1 (SAEJ1772)
Nominal Voltage	110-240V AC
Nominal Current	16A
Applicable Plug	Schuko
Certification	CE
Protection Grades	IP65
Length	5m/customization
Working temperature	-22F to +122°F
Charging protection	Over-current protection, overvoltage protection, under-voltage protection, leakage protection and overheat protection integrated,

## Charging Status Reference Table

Functions	LED Light 1 (Green)	LED Light 2 (Red)	Definition
Initial Status	Blinks one time	Blinks one time	Power on or reset The relay is "off"
TO Be Connected	Keeps blinking fastly	Lights off	The voltage of Detection Point 1 is 12V and the relay is "off"
Normalt Charging	Keeps blinking slowly and regularly	Lights off	The voltage of Detection Point 1 is 6V and the relay is "on"
End of Charging	Lights on	Lights off	The voltage of Detection Point 1 is 9V and the relay is "off"

Functions	LED Light 1 (Green)	LED Light 2 (Red)	Definition
Abnormal Communication	Lights off	Blinks once every 2 seconds	The voltage of Detection Point 1 is abnormal (that is, the voltage value is not one of the following values: $[6\pm 0.8]V$ , $[9\pm 0.8]V$ , $[12\pm 0.8]V$ ), the charger enters the protection status; when the voltage at Detection Point 1 is back to normal, the charger will return to normal working state
Undervoltage	Lights off	Blinks twice every 2 seconds	When the voltage is no more than $75V\pm 10V$ for 0.1 second, the power output will be stopped. When the voltage rises to $90V\pm 10V$ , the charging system will start again after a 5-second delay
Normalt Charging	Lights off	Blinks 3 times every 2 seconds	When the voltage is no lower than $270V+10V$ for 0.1 second, the power, output Will be stopped. when the voltage drops to $254V\pm 10V$ , charging will start again after a 5-second delay.
End of Charging	Lights off	Blinks 4 times every 2 seconds	When the leakage current is no lower than $25+5mA$ , the relay will be ff (the response time is $<100mS$ )- When the failure is eliminated, the charger must be powered on again to continue charging.

# Portable EV Charging

Functions	LED Light 1 (Green)	LED Light 2 (Red)	Definition
Overcurrent	Lights off	Blinks 5 times every 2 seconds	<p>● When the current is more than the "Stage1 Fixed Overcurrent Value (15A)" but no more than the "Stage2 Fixed Overcurrent Value (17A)" for 5 seconds, the relay will be "off"; after 10 seconds, the relay will be "on" again. If this overcurrent situation occurs again, the relay will be "off" again. After 3 times of repeats, the failure light will be on and the charging is over. The charger must be re-powered on to continue charging. "</p> <p>●When the current is greater than the "Stage2 Fixed Overcurrent Value (17A)" for 1 second, the relay will be "off", the failure light will be on and charging will be over. It must be powered on again to continue charging. "</p>
Power Plug / Circuit Board Over-heat	Lights off	Blinks 6 times every 2 seconds	When the temperature of the power plug or circuit board is more than 85°C for 2 seconds, the relay will be "off"; it has to wait for the temperature drops to below 65°C for 2 seconds to return to normal working.
PE wire is not connected to ground	/	Lights on	Charging is allowed, but the warning light will be "red" (no blinking) all the time.
Power-on Self-test Failed	Lights off	Blinks 8 times every 2 seconds	If the charger is faulty, the relay will be "off" and the charger reports need of repair

## Important Note

- This is a EV charger for EVs with Type 1 inlets (SAE J1772) . Don't use it for EVS with different inlet types.
- This cable has a precise internal structure. Any questions, please contact our Customer Service at the first time. Please don't take it apart without any professional technical support.
- Don't use it in water.
- The product is only for EV charging. Please don't use it in any other occasions, including hauling, binding and so on.
- Do not use the charger if the controller box is damaged.
- The device must be grounded.
- Do not use this device with an extension cord or an adapter.
- Mind the risk of electrical shock or burn.
- The device does not contain any user-serviceable parts.
- Please do not disconnect the plugs while the ev charger is charging the vehicle.