



Portable Charging for EV (SAE J1772)

User Manual



Email: info@workersbee.com

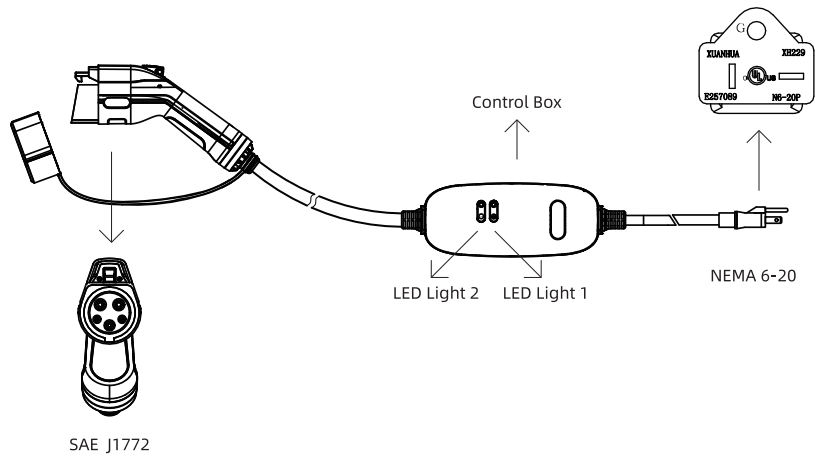
If you have any questions, please contact our email address.



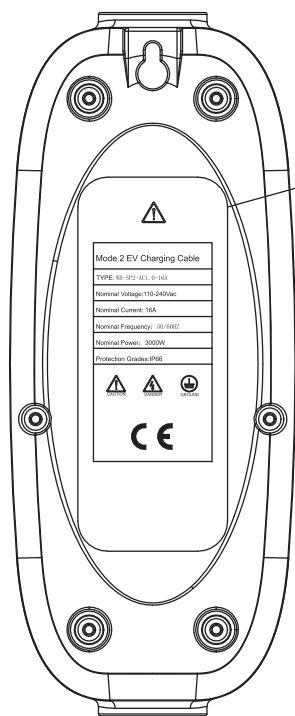
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Please read all instructions carefully before use

Main part



SAE J1772



Mode 2 EV Charging Cable	
TYPE:	WB-SP2-AC1. 0-16A
Nominal Voltage:	110-240Vac
Nominal Current:	16A
Nominal Frequency:	50/60HZ
Nominal Power:	3000W
Protection Grades:	IP65

Quick Use Steps

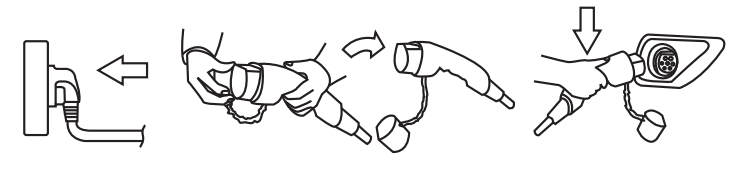
A. How to start charging

- 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.

NEMA 5-15



NEMA 6-20



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

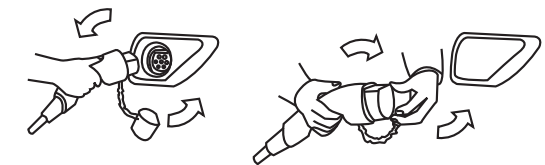
B. How to stop charging

- 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

NEMA 6-20



Disconnect the power plug from the outlet.



Disconnect the plug from the vehicle inlet.

Put the charger away.

Parameters

Charging standard for EV Type 1 (SAEJ1772)

Nominal Voltage	110-240V AC
Nominal Current	16A
Applicable Plug	NEMA 6-20P & NEMA5-15 P (15A)
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)	Detinition
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)	Detinition
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 vottage 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 filure is eliminated, the charger must be powered on again to continue charging.

Functions	LED Light 1 (Green)	LED Light 2 (Red)	Detinition
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.