

# Teison

Portable



## Portable *PRO* EVcharger Manual

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Thank you for purchasing your new Teison  
PRO portable EV charger.

Our products are tested before being  
dispatched from our factory so you should  
find that everything performs as it should and  
that there are no visible signs of damage on  
the product.

Please take a few minutes to go through this  
short instruction manual paying attention to  
the important safety information.

**Thanks again and lets get charging.....**



## Product Overview Portable *PRO*

Teison portable EV charger is a portable charging device for electric vehicles. The product meets the requirements of IEC 61851-1:2017 and IEC/EN 62752:2016 Mode 2 AC charging system. AC charging connector meets EN 62196-2:2017 and SAE J1772.

### Product Safety

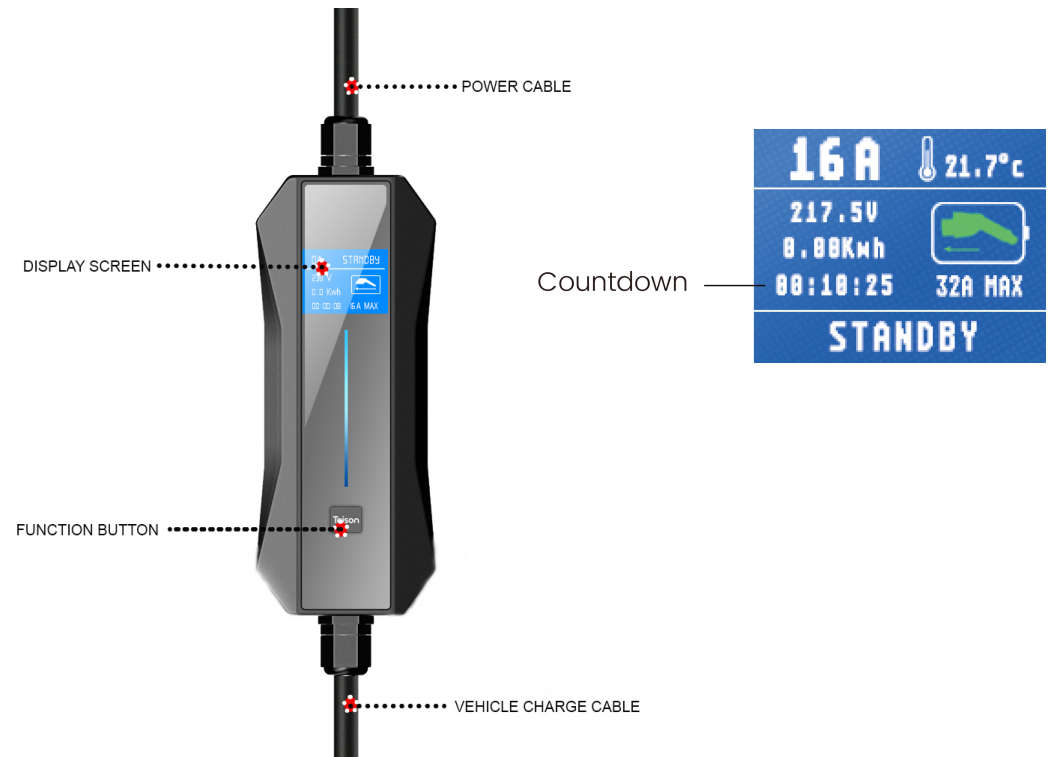
- Ensure the charging unit is always stored in a clean and dry condition.
- Before connecting to a power outlet a visual check of cables must be undertaken.
- This device is not suitable for charging in public places where there is a risk of injury to children.
- Dropping charger onto hard surfaces should be avoided.
- Never insert either end of cable to power or vehicle if the connectors are damp or wet.

### Personal Safety

- Never attempt to disassemble any part of the unit or plug connector.
- This device is not suitable for use by children.
- Disconnect the device immediately should you notice any damage to the charger or cables.
- Cables or connectors are not repairable, unit should be replaced in case of physical damage to any part.
- Do not allow the charger unit to get wet during charging.
- Ensure your home electrical system can supply the power setting you have set on the device.
- Always allow sufficient slack on the cable, move your vehicle closer to the power outlet to avoid excessive pressure on the cable.
- Do not expose or use the charging unit in direct sunlight.
- Never attempt to insert any object into the charging plug.
- This Teison product is for charging electric vehicles equipped with the specific plug attached at the factory. Never attempt to charge anything but an electric vehicle or modify the plug.

# QUICK START

- 1. Charging.** Connect the charging unit to a power supply, the blue indicator light will illuminate to confirm the power supply. Press the function button to set your desired charging current, connect the vehicle plug to your vehicle and the charger will begin charging as soon as communication is established. Should the connect symbol not change to charging you may need to press the control button again. Screen will switch to display power, charge rate, temperature and elapsed charging time. While charging the solid green indicator light will pulse.
- 2. Scheduled charging.** To use the scheduled charging feature, keep the function button pressed for 3 seconds, the screen will show the time delay, keep pressing the function button to set desired delay time. Release the function button and delay is set. To reset delay feature simply unplug the unit from the power supply and reconnect to use.
- 3. Monitoring the charging process.** During the charging process the current, current leakage and temperature of the control box are all monitored. If a fault occurs the power supply stops, the indicator light flashes red and the screen will display the fault description.



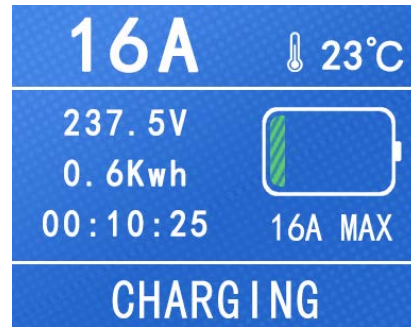
- 4. Charging is over.** As soon as your vehicle tells the charger that the battery is full charging will stop and the green indicator will change from pulsing to solid green again. Disconnect the power plug from the outlet (socket). Disconnect the plug from the vehicle inlet.

Article	Specification
Output current	6A/8A/10A/13A/16A/20A/32A
Leakage Protection' AC 30mA+DC 6mA'	Supported
Under voltage protection	Supported
Over voltage protection	Supported
Over temperature protection	Supported
Over current protection	Supported
Short circuit protection	Supported
Screen display	Supported
Schedule charging	Supported
Surge protection	Supported
EFT	Supported

### Auto Temperature Adjustment

During operation it is normal that the charger will generate a certain amount of heat. Should however there be too much heat generated due to long term charging in warmer conditions, your Teison portable charger has under and overheat protection to keep everything working correctly.

Should the unit temperature rise above 75 degrees the charger will automatically adjust the current to allow everything to cool down, once below 75 degrees the current and charge rate will increase to its original set level. Above 85 degrees your charger will shut down, the indicator light will flash red and "over temperature" will show on the screen. You can leave the charger connected and as soon as the temperature falls the charger will automatically begin charging again.



Waiting for charging indicator	Blue light is on constantly
Connection indicator	Green light is on constantly
Charging indicator	Green light
Fault notification	Red light flashes

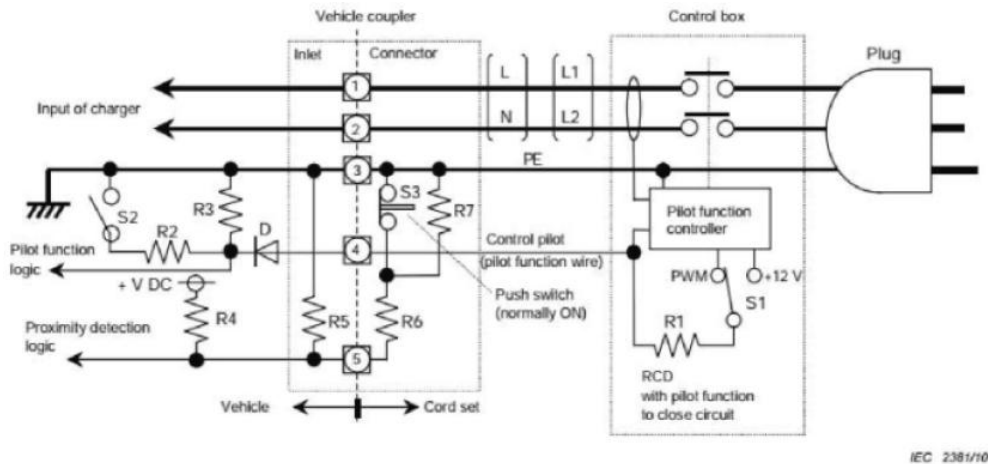
LCD display instruction	
Status of Standby	<p>The image shows the LCD display in standby mode. It displays '0.0A' for real time current, '21.7°C' for temperature, '217.5V' for real time voltage, '0.00Kwh' for power consumed, '00:10:25' for charging time, and '32A MAX' for the maximum working current. The charging status is 'STANDBY'. A thermometer icon is labeled 'Thermometer Icon' and a battery icon is labeled 'The Max working current'.</p>
Status of Connecting	<p>The image shows the LCD display in connecting mode. It displays '0.0A' for real time current, '21.7°C' for temperature, '217.5V' for real time voltage, '0.00Kwh' for power consumed, '00:10:25' for charging time, and '32A MAX' for the maximum working current. The charging status is 'CONNECTING'. A thermometer icon is labeled 'Thermometer Icon' and a battery icon is labeled 'The Max working current'.</p>
Status of charging	<p>The image shows the LCD display in charging mode. It displays '16A' for real time current, '21.7°C' for temperature, '217.5V' for real time voltage, '0.00Kwh' for power consumed, '00:10:25' for charging time, and '32A MAX' for the maximum working current. The charging status is 'CHARGING'. A thermometer icon is labeled 'Thermometer Icon' and a battery icon with a lightning bolt is labeled 'The Max working current'.</p>

## Reference Standard

NO.	Standard No.	Statement
1	IEC 61851-1:2017	Electric vehicle conductive charging system – Part 1: General requirements
2	IEC/EN 62752´ 2016	In-cable control and protection device for mode 2 charging of electric road vehicle (IC-CPD)
3	EN 62196-2:2017	Plugs, socket-outlets, vehicle connectors and vehicle inlets –Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories
4	SAE-J1772-2017	SAE Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler

## Product Specification

Subject	Specification	
Item No.	TS-PEC-002	
Product	Portable EV Charger	
Flammability	Control box	Meets: UL94 LV: V-0
	EV Charging Plug	Meets: UL94 LV: V-0
	EV Charging Cable	Meets: UL1581 LV: VW-1
EV rolling test	Meets: IEC/EN 62752:2016	
Cable Deflection	Meets: IEC/EN 62752:2016	
Drop	Meets: IEC/EN 62752:2016	
Note ´ Plug-in and plug-out test is under no-load condition		



Specification	Power plug	Schuko/UK/AU/NEMA/CEE or customized
	Power side cable L1	Length 1000 mm, Specification 3*2.5mm <sup>2</sup> /3*6mm <sup>2</sup>
	Control box on cable	IEC 61851-1:2017 & IEC/EN 62752´ 2016 Control box size: 255mmU´ Hur x109mm(W)x55mm(D)
	Car side cable L2	Length´ 4500mm or customized SIZE´ 3*2.5mm <sup>2</sup> +2*0.5mm <sup>2</sup> /3*6mm <sup>2</sup> +2*0.5mm <sup>2</sup>
	Car side plug	16/32A, TYPE1/2, Meet EN 62196-2:2017/ SAE_J1772-2017
	Total cable Length	5.5M or customized
Weight	≤3.6kg	

## Environmental Performance

Working temperature	-30°C~~60°C
Storage temperature	-40°C~~70°C
Working humidity	5%~~95% $\varnothing$ No condensation
IP level	Control box IP67
	Plug on car $\cup$ Unconnected $\cup$ IP54
	Plug on car $\cup$ connected $\cup$ IP55
Altitude	$\leq$ 2000m
Salt spray test	MEET IEC/EN 62752:2016
Atmospheric pressure	80kPa~101kPa
Temperature and humidity cycle	MEET IEC/EN 62752:2016
Note $\cup$ Avoid use in flammable or corrosive environments.	

## Electrical Properties

	Specification	
Rated voltage	254V AC	
Operating Voltage	120/230V	
Rated frequency	50/60Hz	
Rated current	16A	
Control Pilot	IEC/EN 62752:2016	
	Duty Ratio	53.3%
	Frequency	1000Hz
Leakage Protection	Type A	
	AC leakage	30mA
	DC leakage	6mA
Insulation Resistance	$\sim$ 10M $\Omega$	

## Mechanical Properties

	Specification	
EV expected plug life	CEE 16A PLUG	5000 times
	AC charging plug	10000 times

## After Sale service

At Teison we are proud of the quality and care we put into every one of our products. Your Teison device has undergone thorough testing before leaving our factory to ensure many years of uninterrupted use.

### Product warranty policy:

Your Teison product is guaranteed for a period of 2 years after purchase. Should your device develop a fault within the warranty period it may be returned to us for repair or replacement.

### Product warranty conditions:

- Physical damage to the unit or cables is not covered by the warranty.
- Units that have been opened or tampered with are not covered by the warranty.
- Units that have been used for anything other than the intended purpose are not covered by the warranty.
- Warranty only covers products purchased in the UK by an approved Teison distributor.

Purchase date	
User name	
Contact phone	
Address	
Purchased from	
Email address	

Product name	
Model	

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