

Teison



Teison Portable pro

TS-PEC-002



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The best charger for your wonderful journey



Product features



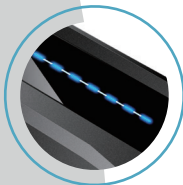
Solid design control box

Meet IP65 & IK10 standard by lab test



LCD Color screen

Easiest user interaction and real-time status view



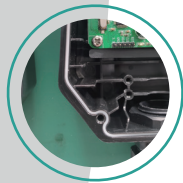
Breathing Indicator light

Showing real time charging status



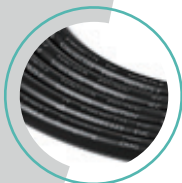
Control button

Max output current adjustment & set scheduled charging time



Water protection gasket

30 minutes water resistance under 1 meter depth of water



TPU cable

4.5 meter cable with excellent durability and top cold resistance at -30°C



TUV approved connector

Excellent water protection and easy hold ; Silver plated terminals to minimize wear and tear on EV charging socket

Designed for the best portable EV charging

- IEC/EN 62752 , all EMC items under IEC/EN 61000 , IP65 approved by TUV
- IK10 Solid design withstand a 2.5T car
- Max 22 kw fast charging speed
- Flexible charging/ power connector options
- Color screen displays all the charging data you want to know in real time and dynamically
- Build in metering chip measures power consumption accurately
- Max 7 levels current adjustment & 8 hours scheduled charging
- -30°C-50°C stable working
- Self-diagnosis of faults, automatic repair
- Compatible with all cars in type 2/1 connection.
- Protecting the life of car battery with the most stable charging process.

Highest safety

- PCV0 housing with 2.0~3.0mm thick exudes robustness and protects inside components from external influences.
- The housing is made from materials specially developed for top heat dissipation and with flame retardant coating.
- Completely meets all requirements of the TUV applicable standards.
- AC + DC faults detection
- Real-time monitoring for heat and all instabilities during charging process

Parameter

Specification	
Model	TS-PEC-002
Electrical Properties	
Voltage	230V AC±10%/380V AC±10%
Max Output Current	16A / 32A (6 / 8 / 10 / 13 / 16 / 20 / 32A adjust)
Max Out Power	3.5KW / 7KW / 11KW / 22KW
Frequency	50 / 60Hz
Residual current protection	30mA as default 6mA is optional
Structure Design	
Display	1.8" LCD
LED Indicator	LED Light bar
Front Panel	PMMA
Installation Method	Wall-mount/carry-on Optional
Charging Outlet	Type1/2 + 4.5M charging cable
Power incoming line	0.7M
Total cable length	>5M
Housing Material	PC+GF 10%
Security Protection	
Safety Standard	IEC/EN 61000-6-1:2019; EN 61000-6-3:2007+A1; IEC 61000-6-1:2016; IEC 61000-6-3:2006+A1; CISPR 14-1:2016; IEC/EN 62752:2016+A1
Multiple Protection	Over/Under voltage protection , Surge protection , Over temperature protection , Over current protection , Leakage Protection , Short circuit protection , EFT Protection
Warranty	1 year
Environmental Performance	
Working temperature	-30℃~+50℃
Working humidity	5%~95%, No condensation
Protection Level (control box)	IP65
Altitude	≤2000m
Application Site	Indoor/Outdoor
Cooling Method	Natural cooling
Extra Function	
Temperature detection function	Yes (check the temp.of PCB and show it on the screen)
Schedule charging	Yes (1-8hours)
Packing Details	
Product Size	255*109*55mm

Product size and packaging

Product size: 255*109*55mm

Product net weight:

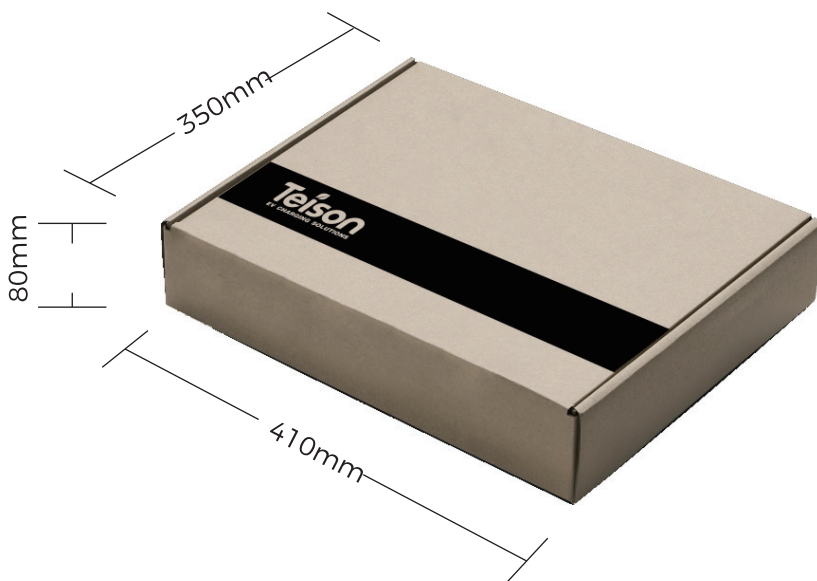
16A: ≤3.5kg 32A: ≤4kg

Product gross weight:

16A: ≤3.8kg 32A: ≤4.4kg



Each one is with a certificate of conformity card. Five-layer corrugated packaging is used to fit the charger measured 410mm(L)*350mm(W)*80mm(H) for 1 pc.



Product installation

Pls kindly check the manual before using.

The operation steps are as follows:

Step 1: Connect with the power, the control box starts to be energized, the blue light bar is always on, and the screen will display the gear and status.

Step 2: Press the “Ampere button” to set charging current.

Step 3: Schedule charging function

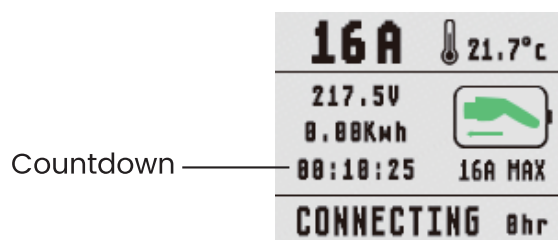
1) In standby status, press the button for 3s to enter charging time scheduling interface; to exist this interface, press the button again for 3s.

2) In charging time scheduling interface,

set for one hour by pressing the button once and Max 8h can be set. Then plug-in the connector to the vehicle to wait for charging.



Ampere button



3) Power off and then power on again if to terminate the reservation status.

Step 4: Plug-in the connector to the vehicle.

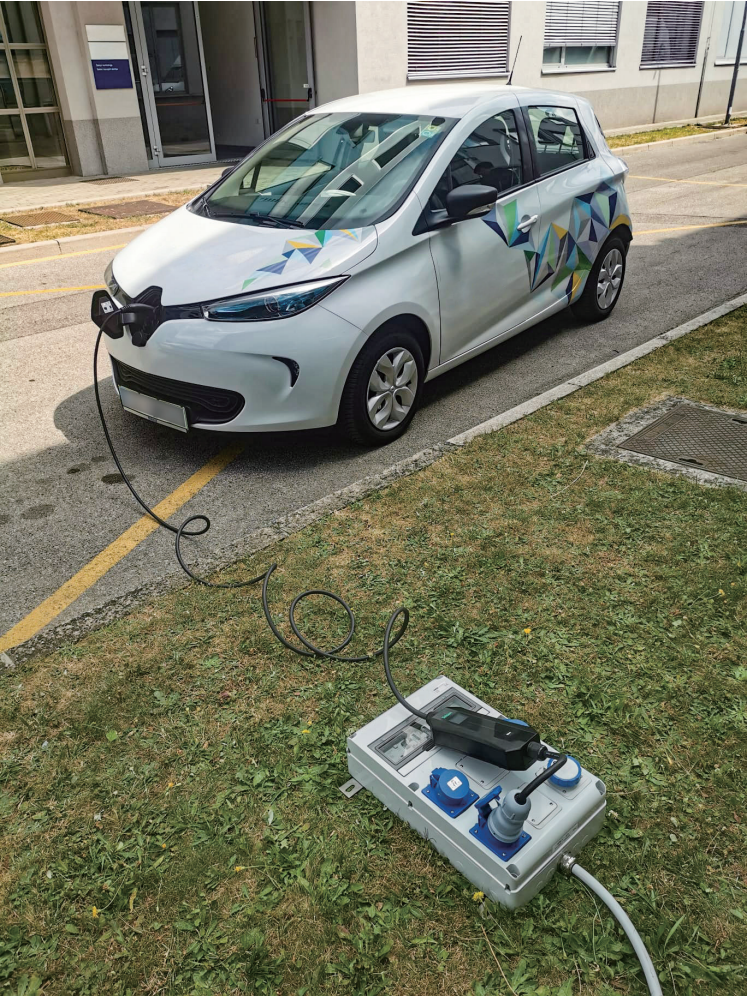
Step 5: Start charging and communication is established between the charger and vehicle. Charging process will be monitored by the charger.

Step 6: Disconnect the plug from the outlet and the connector from the vehicle separately after charging finished

Fault handling

Condition	LCD display	Status indicator light	Solution
Leakage Protection	Creepage	Red on	The relay automatically disconnects within 20 milliseconds, cuts off the power, and stops charging. The charger will need to be manually powered back on.
Over voltage protection	OverVoltage		Charging automatically stops if the voltage exceeds the over voltage threshold of 280V (±5V). Charging automatically resumes when the voltage returns to below 280V (±5V).
Less voltage protection	UnderVoltage		Charging automatically stops if the voltage decreases below the low voltage threshold of 80V (±5V). Charging automatically resumes when the voltage returns to above 80V (±5V).
Over current protection	OverCurrent		Charging automatically stops if the real time current is higher than 10% of the rated output current, and will automatically resume when it returns to less than 10%. If the real time current increases to more than 20% of the rated output current, charging automatically stops but the charger will need to be manually turned off and powered back on to resume charging.
Over temperature protection	Over Temperature		Charging automatically stops if the temperature exceeds the over temperature threshold of 85 C. Charging automatically resumes when the temperature returns to below 85 C.
NTC brake	Temp Brake		When the temperature sensor is open circuit, the relay will automatically cut off and charging will stop. The charger will enter a fault state and will need to be returned to the factory for repair.
NTC short	Temp Short		When the temperature sensor is short circuit, the relay will automatically cut off and charging will stop. The charger will enter a fault state and will need to be returned to the factory for repair.
CP communication	CP Fault		When the communication part of the charging cable has short circuited, the relay will automatically cut off and charging will stop. The car connector gun will need to be removed and reinserted until the gun clicks into place. If the LCD Screen still displays 'CP Fault', the charger has entered a fault state and will need to be returned to the factory for repair.
Meter Fault	Meter Fault		Contact sales for inspection.
Gun Fault	Gun Fault		Contact sales for inspection.
CP Duty Error	CP Duty Error		Contact sales for inspection.

Our case





Teison profile

Teison Energy Technology Co., Ltd. is a high-tech enterprise dedicated to new energy products. With its industry-leading R&D and design team, it has advanced automobile charging technology and products that can solve energy management, load balancing, commercial operations, data transmission, remote upgrading, and operation and maintenance management in various application scenarios. It provides users with an integrated "Solar-storage-charge" solution.

Teison's products comply with national, European, American, and Japanese standards, including household intelligent charging series and high-power fast charging and supercharging direct current series for commercial operations that are available in AC and DC, mobile, and portable models. They have been certified by the OCPP1.6J certification of the OCA alliance, Germany's TUV Rheinland for CE, CB, WEEE, UKCA, TR25, and AZE certifications, and the national grid 16949 certification.

As a smart charging expert, Teison's products are sold worldwide. It has established more than 100 sales outlets in over 40 countries, and has set up subsidiaries, overseas warehouses, and after-sales service departments in Europe, the Middle East, South America, and Southeast Asia to provide users with efficient and fast technical support.

As a safety charging expert, Teison insists on putting safety first, and product quality is the essential guarantee of safety. It creates aesthetically designed, high-quality, and safety-friendly charging scenes for users, and together with Teison's technology, lets users enjoy a better life.

Factory history

2018.9

Teison brand established, committed to creating the most reliable charging solution for global customers.

2018

1. Launched 1st Gen Home EV wallbox and EV cable
2. Focus on the production of high quality European standard EV charging equipment.

2019

1. Developed the first LVD+EMC TUV approved IP67 portable ev charger in China for European market.
2. R&D team established for OCPP smart charging solution both on hardware&software.

2020

1. New production base established.
2. Developed OCPP full function Pro wallbox and OCPP platform.
3. Fast growing in EU market on Smart wallbox market share.
4. R&D team established for DC charging station.

2021

1. Developed the first LVD+EMC TUV approved OCPP full function Mini wallbox in China.
2. Developed OCPP DC charging station from 30-360kw.
3. Started to providing customization service for customers.
4. Continue to increase investment in R&D.

2022

1. Production base expended.
2. Fast growing on market share in EU, Asian and South America.
3. Developed dynamic load balance and solar surplus charging solution.
4. Fast growing on DC charging station market share.