

# Technaxx®\* user manual

## 12V 10W Power Solar Panel TX-209

Before using the appliance for the first time, please read the instructions for use and safety information carefully.

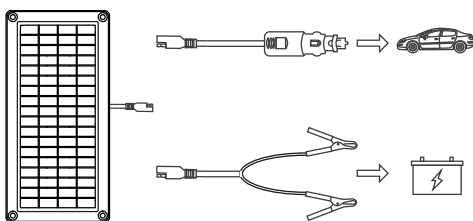
This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised or instructed on the use of this device by a person responsible for their safety. Children should be supervised to ensure they do not play with this device.

Keep this user manual for future reference or product sharing carefully. Do the same with the original accessories for this product. In case of warranty, please contact the dealer or the store where you bought this product.

Enjoy your product \* Share your experience and opinion on one of the well-known internet portals.

### Features

- Solar trickle charger, suitable for 12V batteries of cars, motorcycles, caravans, tractors, etc.
- Compact design with suction cups for glass mount
- Built-in diode to prevent reverse current at night
- With battery clamps and 12V cigarette lighter plug



### Technical specification

Max. power	10W
Open circuit voltage ( $V_{oc}$ )	22.41V
Working Voltage ( $V_{op}$ )	17.9V
Working current ( $I_{op}$ )	0.56A
Short circuit current ( $I_{sc}$ )	0.61A
Output tolerance	±3%
Operating temperature	-20°C~+60°C
Plug type	SAE-Plug for adapter cable battery or cigarette adapter
Device weight / dimension	0.5kg / 37.5 x 25.3 x 1.5cm
Package contents	12V 10W Power Solar Panel TX-209, 4x suction cup, battery clip adapter, cigarette lighter adapter, user manual

### Safety instructions

- Observe the safety instructions during use.
- Installation and commissioning may only be carried out by authorized electricians.
- Any modification or alteration of the product will affect the safety of the product. Caution risk of injury!
- All changes and repairs to the product or its accessories may only be carried out by the manufacturer or by persons expressly authorized by the manufacturer.
- Never open the product without authorization.
- Never carry out repairs yourself!
- Handle the product with care. It can be damaged by shaking or falling from a small height.
- Never immerse the product in water or other liquids.
- The solar panel may only be used in accordance with its suitability.
- The solar panel must not be technically modified.
- Keep moisture away from tools and the work environment!
- Only connect cables with dry plugs.
- Do not insert any electrically conductive parts into the plug connection of the solar module.
- Technical changes and errors reserved.

### CAUTION

- Output plugs are under current – Risk of injury!
- Never leave the plugs in wet environment or immerse in water or other liquids.
- Keep children away from this solar panel.
- Only use the power solar panel to charge 12V batteries of vehicle with wet batteries.
- Do not use during driving or running engines.

### Mounting instructions

- Place the solar panel in a bright place with long exposure to the sun. Best power will gain when sun hits the panel in 90°.
- Shade or glass between the solar panel and sun rays significantly reduces the power output.
- Some vehicle doesn't support backward charging of the battery during 12V cigarette lighter. In this case use the battery clamps directly. **Note:** Mind correct polarity – RED (+) positive pole / BLACK (-) negative pole.

### Usage of the solar panel

Once sun rays hit the panel, the panel keeps the battery power. Discharge is blocked by a diode during night.  
**Note:** This panel is made for keep the battery power. It is not suitable to charge empty batteries.

### Support

Service phone No. for technical support: **01805 012643** (14 cent/minute from German fixed-line and 42 cent/minute from mobile networks). Free Email: **support@technaxx.de**  
The support hotline is available Mon-Fri from 9am to 1pm & 2pm to 5pm.

### Cleaning and maintenance

**Danger!** Always work without current and not under load. Unplug all cables and cover the solar panel to avoid electric shock.  
• Clean the equipment regularly with a moist cloth. Do not use cleaning agents or solvents. • Ensure that no water can seep into the plugs. The ingress of water into an electric device increases the risk of an electric shock or damage of the device.

### Declaration of Conformity



The EU Declaration of Conformity can be requested at the following address: [www.technaxx.de/](http://www.technaxx.de/) (in the lower bar "Declaration of Conformity").

### Disposal



Disposal of the packaging. Sort packaging materials by type upon disposal. Dispose of cardboard and paperboard in the waste paper. Foils should be submitted for recyclables collection.  
Disposing of old equipment (Applies in the European Union and other European countries with separate collection (collection of recyclable materials) Old equipment must not be disposed of with household waste! Every consumer is required by law to dispose of old devices that can no longer be used separately from household waste, e.g. at a collection point in his or her municipality or district. This ensures that the old devices are properly recycled and that negative effects on the environment are avoided. For this reason, electrical devices are marked with the symbol shown here.

Made in China

Distributed by:  
Technaxx Deutschland GmbH & Co. KG  
Konrad-Zuse-Ring 16-18,  
61137 Schöneck, Germany