

Technaxx®* user manual

Flexible Solar Panel 100W TX-208

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

- Flexible design, easy installation and ideal for various applications e.g. camping, caravan, boat, gazebo, balcony etc.
- ETFE surface for optimal light transmission
- High efficiency monocrystalline solar cells

Technical specification

Max. power	100W
Max. voltage	18V
Current	5.56A
Efficiency	20%
Solar panel	Monocrystalline solar cell
Operating temperature	-20°C~+65°C
Protection class of the junction box	≥IP67
Material	ETFE / EVA
Plug type	XT60 / MC40 / Anderson / DC7909
Output tolerance	±3%
Short circuit current (I_{sc})	6.05A
Open circuit voltage (V_{oc})	21V
Maximum power voltage (V_{mpp})	18V
Maximum power current (I_{mpp})	5.56A
Device weight / dimension	2.1kg / 108 x 53.5 x 0.3cm
Package Contents	Flexible Solar Panel 100W TX-208, 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.
- Never connect directly to house power. A suitable inverter must be connected in between for this.
- 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.
- Do not plug several items at once to the connectors.
- Do not bend beyond the possible bending radius.
- Only use battery charge controller to charge batteries – except they are included in the device. Power stations usually have internal charge controller. Refer to the manual or service of the device if it is not clear.

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 significantly reduces the power output. Avoid shady areas, e.g. trees, walls etc.
- A southern exposure is preferable.
- Observe the local instructions and restrictions for the use of solar energy.

Usage of the solar panel

Mount the solar panel to the area where it is preferable. Use the mounting lugs to fix it in position, or use solar module clamp mounts.

The solar panel has different output options:

XT60 / MC40 / Anderson / DC7909

These outputs fit to most of purchasable power stations. If not – adapters are available for all configuration settings.

NOTE: Not suitable for parallel or serial connection.

The outputs only supply energy of one solar panel.

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/ (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,
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DATASHEET

Flexible Solar Panel 100W TX-208

Specification

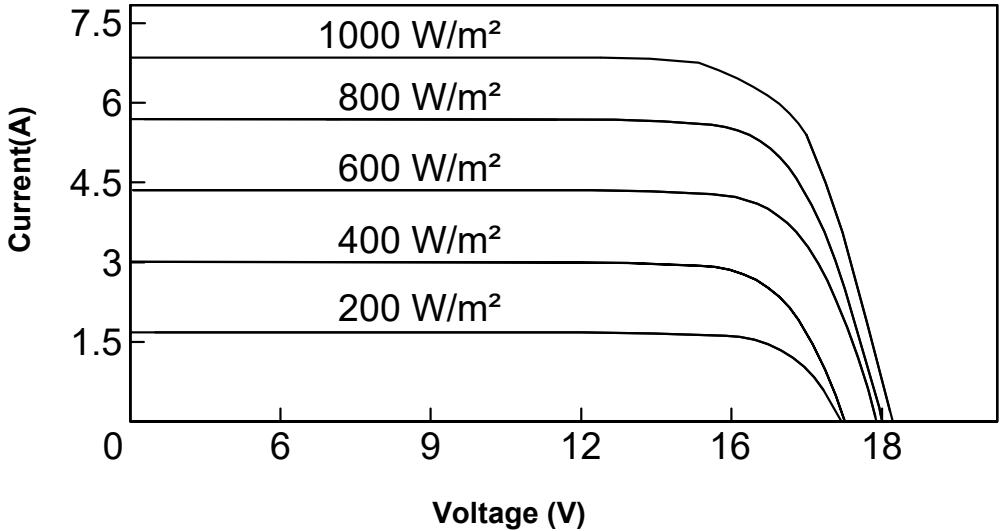
Rated power [P_{max}] 100W
Power error $\pm 3\%$
Nominal voltage 18V

Solar parameters

Working voltage [V_{mp}] $18V \pm 1V$
Working current [I_{mp}] $5.56A \pm 0.45A$
Short circuit current [I_{sc}] $6.05A \pm 0.55A$
Open circuit voltage [V_{oc}] $21V \pm 0.8V$
Circuit features voltage $(0.065 \pm 0.015) \%/^{\circ}C$
Temperature features current $160 \pm 10) mA/^{\circ}C$
Temperature features $(0.5 \pm 0.05) \%/^{\circ}C$
Maximum system voltage 120V

All tests were performed under standard conditions
(STC – Standard Test Conditions):
1000W/m², AM1.5, 25°C (38000-40000LUX)

Current over Voltage Curve



NOTE: This curve shows the current output for different weather and temperature conditions based on W/m². Best conditions are sunny and cold weather.