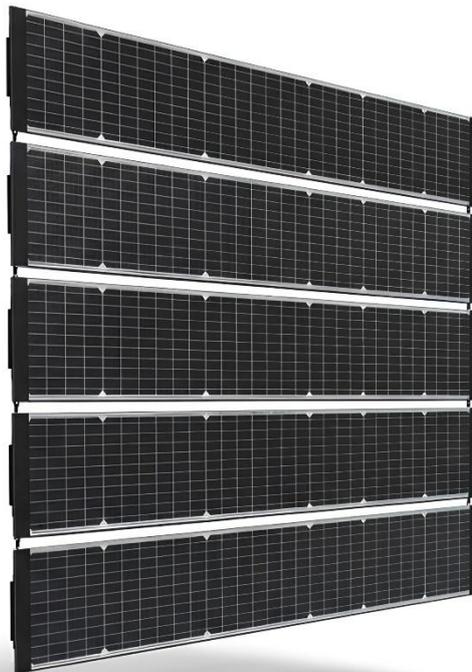


Technaxx® * User Manual

Flexible solar stripes 5x2m TX-385

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.

Specifications are subject to change without notice - please be sure to use the latest manual available on the manufacturer's website.

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Note

- Use the product only for its intended purposes.
- Do not damage the product. The following may cause damage to the product: incorrect voltage, accidents (including liquid or moisture), improper use or misuse of the product, faulty or improper installation, electrical problems, including power surges or lightning damage, insect infestation, tampering with or alteration of the product by unauthorized service personnel, exposure to unusually corrosive materials, insertion of foreign objects into the device, or use with unauthorized accessories.
- Follow all warnings, precautions and safety instructions in the user manual.

Safety instructions

- Read the user manual carefully. It contains important information about the use, safety, and maintenance of the device. Keep the user manual in a safe place and pass it on to subsequent users if necessary.
- Before installing or using the solar balcony power plant, read all instructions and warnings in the technical documentation on the solar modules.
- The device may only be used as intended and in compliance with these instructions for use.
- Follow the safety instructions when using the device.
- Before use, check the device, its power cable, and accessories for damage. Do not use the device if it shows any visible damage.
- Operate the device only with household power sources. Check that the mains voltage indicated on the rating plate matches that of your electrical system.
- Carry out all electrical installations in accordance with local regulations (including VDE).
- Do not crush or bend the power cord, do not pull it over sharp edges or hot surfaces,

and do not use the power cord for carrying.

- If the power cord of this appliance is damaged, it must be replaced by a qualified person in order to avoid a hazard.
- Make sure that the device is properly secured during operation and that no one can trip over cables.
- Never use the device after it has malfunctioned, for example damaged in any way.
- The manufacturer assumes no liability for improper use resulting from failure to follow the instructions for use.
- Modifications or changes to the product impair product safety. Caution! Risk of injury!
- Make sure that the product is operated from an easily accessible power source so that you can quickly disconnect the device from the power supply in an emergency.
- Never open the product without authorization. Never attempt to repair it yourself!
- Handle the product with care. It may be damaged by shocks, impacts, or falls, even from small heights.
- Keep the product away from extreme heat.
- Technical changes and errors excepted!

Disclaimer

●Technaxx Germany is under no circumstances liable/responsible for direct, indirect, incidental, special, consequential damages to property or life, or improper storage, arising from or in connection with the use or misuse of its products. ●Depending on the environment in which the product is used, error messages may appear. ●Improper installation, assembly, or preparatory work, such as foundations, must be verified for safety reasons and comply with applicable regulations. Technaxx is not responsible for any resulting consequential damages.

Features

- 325 Wp power per fence element
- Generate electricity with your fence
- Dual function - privacy screen & green electricity
- Easy to install - thread into fence, grid or railing
- Bifacial Monocrystalline solar modules 65 Wp
- For 2m wide double wire mesh fences
- For one fence element, minimum height 1.0m

Product overview

Solar module 65W			
1	Minus Junction box with 2x 10cm MC4 connection cables	2	Plus Junction box with 2x 10cm MC4 connection cables

Assembly

Note the following instructions for installation.

In general, it is possible to attach or weave the modules onto various types of mesh, fences, or railings. Since this can vary greatly, only the attachment to a double-rod mesh fence is described below.

General information

- Before you start installation, check the solar modules and the cables for any visual damage.
- Do not stand or step on the module.
- Place the solar module on a clean, flat and soft surface.

Selection of the fence element

The optimal position of the fence element would be an east-west orientation with little or no shading during the day.

The orientation (east, south, west) and the geographical location influence the yield of the balcony power plant.

Yield with east-west orientation (example):

Balcony power plant performance	Average maximum electricity yield / year	Average maximum electricity yield per day
325 watts	up to 325 kWh	up to 0.89 kWh
650 watts	Up to 650 kWh	Up to 1.78 kWh

Wind load

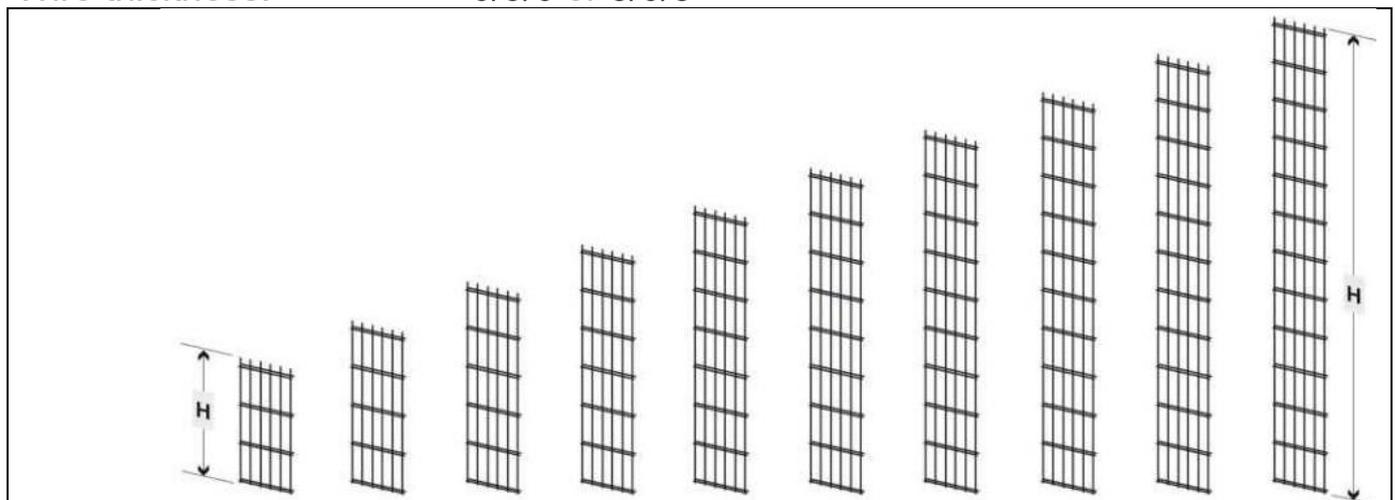
Increased wind load due to privacy screens

- Function as a sail: Privacy strips that are woven into the double rod mats increase the surface area exposed to the wind.
 - Increased load: The wind pressure on the fence increases, which leads to increased load on the posts and attachment points.
 - Need for sturdy posts: To withstand the increased wind load, double wire mesh fences with privacy strips should be provided with sturdy posts, preferably embedded in concrete.
 - Foundation: A stable foundation is also important to securely anchor the posts and give the fence additional stability.
- Impact on fence construction: Depending on the wind zone and height of the fence, different construction and stability are required to withstand the loads.

Double rod mesh fence

For installation or retrofitting on a double wire mesh fence, the following must be observed for each fence element:

- Minimum length: 2.0 m
- Minimum height: 1.0 m or 5 compartments
- Row height: 0.19 m
- Wire thickness: 6/5/6 or 8/6/8



Height (H)	630	830	1030	1230	1430	1630	1830	2030	2230	2430
Number of rows	3	4	5	6	7	8	9	10	11	12
use	No	No	Yes*	Yes						

*Inverter cannot be mounted in the compartment under the last module on the fence!

Installation

Danger:

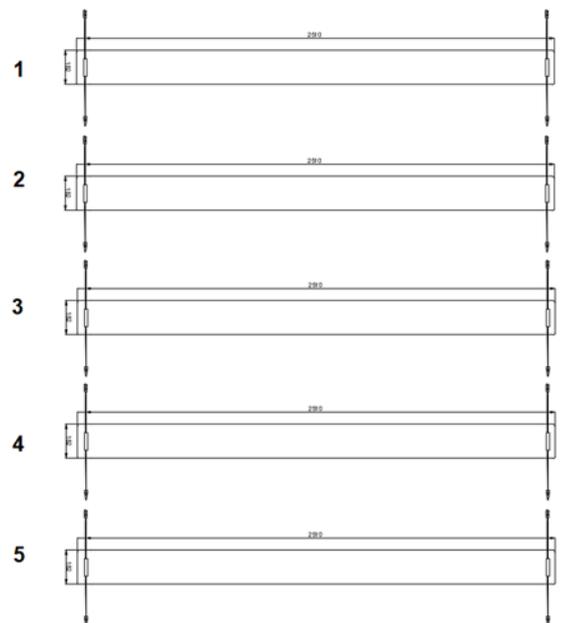
- Be careful when weaving the modules.
- Make sure to bend the modules in wide radii to avoid possible breakage or damage to the solar cells.
- Avoid pulling past bars to protect the fence and module.

Important: To achieve the best results and the best power yield, it is important that the modules are covered by as few rods as possible!

1. When weaving in, make sure that all modules are aligned in the same direction. That all **positive** connections are on one side of the fence panel and that the same side is always facing forward.
 2. It is best to start weaving the module in the top row and then work your way down.
 3. It's best to use two people to braid it. Start in the middle and thread the two ends through from back to front.
 4. Now make sure that both ends of the solar module are the same length, so that minimal adjustments are required later. This will prevent possible scratches and damage to the module and fence.
 6. You can try to push the module into the post or clamp it underneath on the left and right sides of the post.
- Repeat steps 1-7 for each module.

Cabling of the modules

1. After weaving or during weaving, connect the modules to each other on each side.
2. Connect the lower MC4 connector of the upper module to the upper MC4 connector of the module below. Press the MC4 connectors together until they click into place. Repeat this process until all connectors are connected, except for the top and bottom connectors on each string.
3. You will then have one strand on each side of the fence panel.
4. On the top module, you have an open cable end on the left and right. Use the sealing caps to seal these ends to prevent water from entering the open MC4 connectors.
5. On the bottom module, you now also have an open cable end on the left and right. Connect one of the 2.5m MC4 extension cables here. The red one to the positive side, the black one to the negative side.



Connection to the microinverter (5x65W solar module)

Connect the bottom solar module to the microinverter to one of the two DC inputs (MC4 connectors) of the microinverter.

The microinverter is connected to the solar panels via MC4 extension cables. Simply connect the microinverter's MC4 connectors to the matching counterparts on the extension cable. Push the connector pairs together until you hear a "click."

Connection to the microinverter (2x 5x65W solar modules)

The inverter should be installed on the posts between the modules.

Connect the 2.5m MC4 extension cable to the MC4 connector of the lowest module and lead it back to the middle to the inverter.

Connect the MC4 connectors of the left fence panel on one side of the microinverter and the MC4 connectors of the right fence panel to the free pair of MC4 connectors on the microinverter.

Mount the sealing caps on the open MC4 connectors of the two upper modules of the two fence elements.

Installation of the microinverter

To mount the inverter you will need the two metal cable ties.

The installation is intended to be centered under the last module or as low down on the fence element as possible.

Thread the metal cable ties through the microinverter handle and through the fence. Secure the cable ties and pull them tight.

Alternatively, you can also mount the inverter on one of the posts on the left or right.

Technical specifications

Model Type: YH65W-22M	
ELECTRICAL DATA	
Peak Power (Pmax)	65
Maximum Voltage (Vmp)	25.52
Maximum Current (Imp)	2.55A
Open Circuit Voltage (Voc)	29.92V
Short Circuit Current (Isc)	2.69A
Module Efficiency (%)	17.86
THERMAL CHARACTERISTICS & OPERATING CONDITIONS	
Maximum System Voltage (V)	1000
Maximum Series Fuse Rating(A)	10
Power Tolerance	0~+3%
Pmax Temperature Coefficients (W/°C)	-0.400%
Voc Temperature Coefficients (V/°C)	-0.330%
Isc Temperature Coefficients (A/°C)	+0.048%
NOCT Nominal Operating Cell Temperature (°C)	45±2
Operating and Storage Temperature (°C)	-40~+85
MECHANICAL CHARACTERISTICS	
Cell Type	166*41.5Mono
No. of Cells	44(1*44)
Dimensions	2000*182*2.5mm
Weight	1.33kg
Junction box	IP65/IP67

Output cables	2.5mm ² cable 10cm + MC4
Max. Wind Load/Snow Load	2400Pa/5400Pa
COMPATIBLE INVERTER	
Inverter Voltage Input (V)	16-60
Inverter Current Input (A)	13-14
PACKAGE CONTENT	
5x flexible solar module 65W, 2x 2.5m MC4 extension cables, 1x MC4 sealing caps (set), 2x metal cable tie, 1x user manual	

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

In the event of anomalies and accidents, please contact: **gpsr@technaxx.de**

Care and maintenance

Clean the device only with a dry or slightly damp, lint-free cloth.

Do not use abrasive cleaners to clean the device.

Declaration of conformity



Technaxx Deutschland GmbH & Co. KG hereby declares that the radio equipment type TX-385 Prod. ID.: 5424 complies with Directive 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address: www.technaxx.de/reseller

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

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