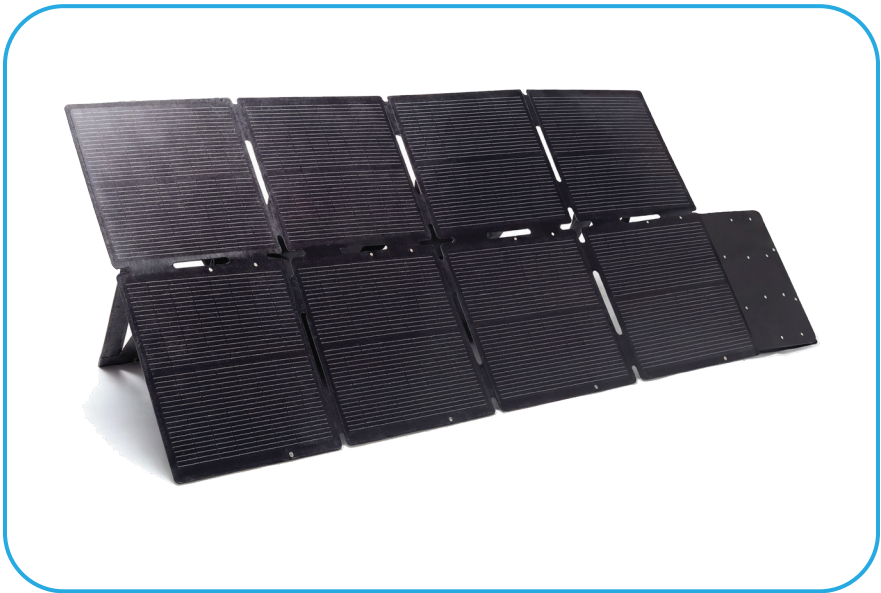




Powerology

HELIOS FLEX 300W TOPCon Folding Solar Panel

SKU: PSM300BK

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Product Overview

The HELIOS FLEX 300W TOPCon Folding Solar Panel is a portable solar charging solution designed to provide dependable power for compatible solar generators and other supported equipment. Its foldable construction, integrated support structure and storage pocket make it suitable for transport, setup and outdoor use.

Package Contents

1. HELIOS FLEX 300W TOPCon Folding Solar Panel × 1

Safety Instructions

Warning:

1. Do not touch exposed electrical contacts or connect cables with wet hands.
2. Cover the solar panel or keep it out of sunlight before connecting or disconnecting cables.
3. Do not connect or disconnect the output while it is under electrical load.
4. Verify correct polarity and use equipment and cables rated for the panel's electrical output.
5. Do not use the panel if its surface, wiring, connectors, or insulation is damaged.
6. Do not disassemble, modify, puncture, or short-circuit the panel.
7. Keep the panel away from fire, heat sources, and flammable or corrosive materials.
8. Secure the panel against falling, tipping, or being carried by wind.
9. Do not strike, crush, bend excessively, stand on, or drop the panel.
10. The IP67 rating applies only to the panel assembly under rated test conditions; do not assume that exposed connections or connected equipment are IP67-rated.

Attention:

1. Follow the connected equipment's instructions before connecting the panel.
2. Keep connectors clean and dry, and fit protective caps when not in use.
3. Allow the panel to cool before handling or storing it after prolonged sunlight exposure.
4. Clean with a soft, damp cloth; do not use abrasive cleaners or solvents.
5. Store the panel in a dry place away from sharp objects and heavy loads.
6. Inspect the panel, cables, and connectors before each use.

Setup and Operation

1. Unfolding the Solar Panel

Choose a stable, open location with direct sunlight and minimal shade.

Place the folded panel on the ground with sufficient space for full deployment.

Release the securing straps and carefully unfold each panel section.

Extend the integrated supports and position the panel securely.

Confirm that every solar-cell surface faces the sunlight and is unobstructed.

2. Positioning for Solar Charging

Orient the panel toward direct sunlight.

Adjust the support angle so the solar-cell surfaces receive the strongest available sunlight.

Keep nearby objects, vegetation and structures from casting shadows across the cells.

Reposition the panel as the sun moves when improved charging performance is required.

3. Connecting Compatible Equipment

Confirm that the connected equipment supports the panel's voltage, current and connector specifications.

Locate the output cable in the built-in storage pocket.

Inspect the cable and connectors for damage, dirt or moisture before connection.

Connect the panel output to the compatible solar input of the receiving equipment.

Check the receiving equipment to confirm that solar input has started.

4. Disconnecting and Folding

Disconnect the output cable from the receiving equipment before moving or folding the panel.

Allow the panel surfaces and connectors to dry completely if they are wet.

Return the cable and connector to the built-in storage pocket.

Fold the sections carefully without pinching the cable.

Collapse the supports, fasten the securing straps and carry the folded panel by its handle.

Folded Storage Configuration

The HELIOS FLEX 300W TOPCon Folding Solar Panel folds into a compact carrying form with an integrated handle, securing straps and a storage pocket for convenient transport.



Deployed Panel Configuration

The folding sections open to expose the solar cells, while the integrated support structure positions the panel toward direct sunlight for power generation.



Specifications

Peak Power (Pm)	300W
Voltage at Max Power (Vmp)	38.4V
Solar Cell	TOPCon Solar Cell
Current at Max Power (Imp)	8.18A
Solar Cell Lamination	ETFE
Open Circuit Voltage (Voc)	44.8V
Cell Efficiency	25%
Short Circuit Current (Isc)	8.43A
Waterproof Rating	IP67
Model Number	PSM300
Output	MC4, 38.4V

Features

1. High-efficiency solar charging output
2. TOPCon monocrystalline solar cells
3. Up to 25% cell efficiency
4. IP67-rated panel assembly under rated test conditions
5. ETFE-laminated surface

6. Compact folding design
7. Integrated support structure
8. Built-in storage pocket

Care and Maintenance

1. Routine Care

Disconnect the panel from all equipment before cleaning or storage.

Remove loose dust and debris from the solar-cell surfaces with a soft, dry cloth.

For persistent dirt, use a lightly dampened soft cloth and then dry the surfaces completely.

Keep the output connectors clean and dry, and fit their protective covers when available.

Do not use abrasive cleaners, solvents, sharp tools or high-pressure water on the panel.

Avoid placing heavy or sharp objects on the folded or deployed panel.

Fold the sections along their intended joints without forcing or sharply creasing them.

Store the clean, dry panel in its folded configuration away from prolonged moisture and direct heat.

Frequently Asked Questions

1. What equipment can be charged by the solar panel?

Use equipment with a compatible solar input that supports the panel's voltage, current and MC4 connector specifications.

2. Why does the output vary during use?

Solar output depends on sunlight intensity, panel angle, cloud cover, shade and surface cleanliness; reposition and clean the panel as needed.

3. Can the panel remain outdoors in wet conditions?

The IP67 rating applies only to the panel assembly under rated test conditions. Do not assume that exposed connections or receiving equipment are IP67-rated; protect them according to their own ratings, and dry the panel before folding or storage.

4. Can the panel charge equipment through a window?

For best performance, deploy it outdoors in direct, unobstructed sunlight because glazing and indoor placement can reduce available solar energy.

5. How should the panel be transported?

Disconnect it, place the cable in the built-in storage pocket, fold the sections, secure the straps and use the integrated carrying handle.

Troubleshooting

Problem	Likely Cause	Solution
HELIOS FLEX 300W TOPCon Folding Solar Panel produces no output	Insufficient sunlight, a loose connection or incompatible receiving equipment	Move the panel into direct sunlight, reconnect each plug securely and verify that the receiving equipment supports the panel specifications.
HELIOS FLEX 300W TOPCon Folding Solar Panel produces weak output	Cloud cover, shade, poor alignment or dirty solar cells	Remove shade, face the cells toward direct sunlight, adjust the support angle and clean the panel surface.
Charging starts and stops	Changing sunlight or an unstable cable connection	Move the panel away from intermittent shade and check that all connectors are fully seated.
Connected equipment does not detect solar input	The solar input is disabled, incompatible or outside its supported range	Enable solar charging if required and verify the receiving equipment's accepted voltage, current and connector requirements.
One panel section appears less effective	Part of the solar-cell surface is shaded or covered	Fully unfold the panel and remove dirt, leaves or objects blocking any section.

Problem	Likely Cause	Solution
Output drops after extended use	Panel orientation has become less effective as the sun moves	Reposition the panel so the cell surfaces again face direct sunlight.
Connector will not fit	The receiving equipment uses a different connector type	Use only a compatible connection intended for the receiving equipment; never force mismatched connectors together.
Connectors are wet or dirty	The panel was exposed to moisture, dust or debris	Disconnect the system, clean the connectors carefully and allow them to dry completely before reconnecting.
Panel will not stand securely	Supports are not fully extended or the surface is uneven	Move the panel to stable, level ground and deploy each integrated support completely.
HELIOS FLEX 300W TOPCon Folding Solar Panel is difficult to fold	A cable or support is not correctly stowed	Disconnect the cable, place it in the storage pocket, collapse the supports and fold only along the intended joints.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our Powerology website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our Powerology website or store. If Powerology products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website www.powerology.me/warranty and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check: www.powerology.me/warranty

Contact Us

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