

SEA EAGLE.com[®]



Solar Canopy

45T for Sea Eagle Boats & Torqeedo Motors
Instruction & Owner's Manual

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Introduction

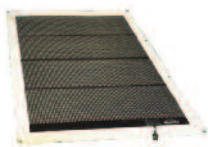
Thank you for ordering the Sea Eagle Solar Canopy. We believe this is the finest solar panel and canopy on the market. This solar canopy is used with Torqeedo 1003 and will charge the Torqeedo lithium battery in less than 10 hours, depending on sunlight conditions. The unique properties of this amorphous silicon solar cell panel allows it to be flexible, to be rolled or unrolled, to be durable and to continuously recharge, even in low-light conditions.

PowerFilm integrated solar panels (thin film on plastic) are developed and manufactured with a proprietary roll process and they are truly rollable unlike other thin film technologies that are only somewhat flexible.

PowerFilm solar panels are all monolithically integrated which eliminates the need for damage-prone manual connections of individual solar cells. PowerFilm is made of silicon, a natural resource in abundant supply. PowerFilm is Cadmium Free, unlike some other solar technologies, and performs well in diverse environments, including hot sun, and does not suffer from wasted over-voltage.

Solar Canopy is compatible with Torqeedo Ultralight 403, Travel 503 & Travel 10003 models.

Important Safety & Operating Instructions



Always roll or unroll your solar panel and always with the silicon solar cells (dark side) in the **OUTWARD** position. Roll the solar module from the bottom up so that the plug remains on the outside.



Avoid creasing, crinkling, folding or standing on your solar panel as this can damage the silicon solar cells and degrade the performance of the solar panel.



The solar panel is extremely weather resistant and can withstand both freezing temperatures and getting wet. After repeated use in fresh or salt water, simply wipe the solar panel with a dry cloth or sponge (no cleaning agents!) and allow the product to dry before storage or use. Avoid prolonged submersion.

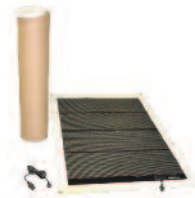


DO NOT use the Solar Panel 45T with a 12 volt battery of any kind.



Keep the shipping tube that your solar panel was shipped in. It is recommended to use this shipping tube as a storage unit for your solar panel. Make sure that unit is dry before storage.

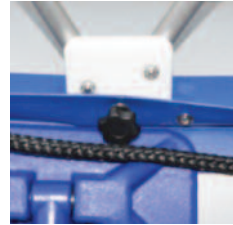
Packing List



Included with the Solar Panel 45T

- 9' Extension Cord
- Canopy Arm Set (Qty 2)
- Canopy Bars (Qty 2)
- Nylon Straps (Qty 3)
- Support Bars (Qty 2)
- Shipping Tube
- Instruction Manual

Instructions For Use



Begin by laying the canopy arms on the boat. Next align the white plastic base plate (already attached to the canopy arms) to the middle of the blue hogging on your boat by inserting the bolt through a grommet and securing it with the black plastic knurled nut. Make sure that the knurled nut is on the outside of the boat as shown. Repeat this process for the other set of canopy arms.



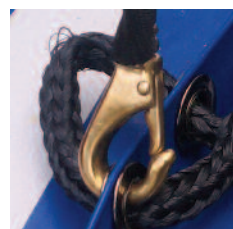
Next locate the bars that form the top of your canopy frame. The front canopy bar has one web strap with buckle in the center while the rear canopy bar has two web straps with buckles near each end.



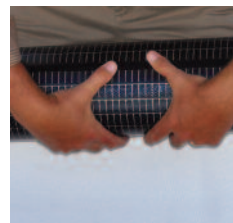
Connect the top bars into the canopy arms matching the push pin buttons on the canopy arms and the pre-drilled holes on the canopy bars. Do this for both the front and rear.



Next locate the straps and run through the buckles. For the front bar you can attach the brass clip to the front bow handle of your boat. Tighten the straps so that the canopy frame is level but leave a little bit of slack to install the support bars and solar panel.



Attach the brass clips for the rear canopy bar through the grommet on the hogging at the stern of the boat. Again tighten the straps so that the canopy frame is level but leave slack to install the support bars and solar panel.



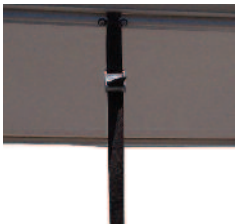
Unroll your Solar Panel 45W with the solar cells (dark side) facing up. Stage the panel in a safe convenient spot.



The solar panel must be installed with the cells up and the plug to the rear. Locate the square support bars starting at one end insert bolts with T-shaped plastic head through bar-grommet of panel and then through pre-drilled holes at top of canopy. Secure with black plastic knurled nuts. Repeat process.



It is important to remember while installing the support bars and the solar panel to the canopy frame that the solar panel should not be bent, creased or folded. This portion of the canopy setup can be done by an individual but is easier with another person.



Once the solar panel and support bars are installed, finish tightening the straps on the front and rear of the canopy bars by pulling the strap through the buckle.



Ensure that the plug on the junction box of the solar panel is fully inserted into the 9' extension cord. There is a tab on the plug that when connected to the extension cord securely, should make a clicking sound. Insert the other end of the extension cord into the Torqeedo on the charging port.



Tighten the connection of the extension cord to the motor by turning it clockwise. You may leave the panel permanently connected to your battery. There is an included blocking diode in the junction box that blocks reverse draining of current from your battery. As with any permanent connection to a battery, safely clean the connections on a periodic basis or as needed.

Unrolled Dimensions

58 x 36 inches

Rolled Dimensions

6.3 inches

Weight

2.8 lbs

Warranty

Solar Canopy Frame is covered by a three year warranty handled directly by Sea Eagle. The PowerFilm Solar Panel is covered by the PowerFilm Warranty (below) and is not covered by the Sea Eagle two part guarantee.

All sales on this product are final, and returns will not be accepted. Warranty work will be performed by the manufacturer.

Terms:

1 Year Warranty against manufacturer defects. Does not cover abuse or neglect. Must be rolled, can not be creased.

PowerFilm Inc, the parent company of PowerFilm Solar, warrants that this PowerFilm Solar product is free from defects in materials and workmanship that impact performance for a period of one(1)year.

The duration of the Limited Warranty is from the date of initial purchase from PowerFilm, Inc. The foregoing warranty does not apply to any defect, failure or damage caused by improper use, unauthorized modifications, neglect, improper testing, attempt to repair, inadequate maintenance or damage from accident, fire, abuse or other hazard.

An additional power output warranty may apply. Please visit the product specific section below for details on the power output warranty as well as any other product specific limitations.

PowerFilm's sole obligation and liability for products failing to comply with this warranty shall be at PowerFilm's choice, either to repair the products or replace the defective product with a new or remanufactured equivalent at no charge, provided that the warranty procedures have been followed.

To obtain service under this warranty, customers must return a failed unit to PowerFilm with the return authorization number, original proof of purchase, description of the failure, contact information and a return shipping address. PowerFilm will return repaired or replacement product at PowerFilm's cost.

Contact Information

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E-Mail: service_usa@torqeedo.com

Technical Data & Dimensions

Output

40-45 watts (typical solar radiation in Europe / USA)

Efficiency

Cell efficiency 7.0%, Module Efficiency 5.5%

Cell Type

Amorphous Silicon

Open Circuit Voltage

44 V

Charging Time

Approximately 8 hours (Ultralight 403 & Travel 503) and approximately 13 hours for the (Travel 1003)

Waterproof Charging

Connectors are fully waterproof, eliminating on the water risks of electrolytic corrosion.