

ACCREDITED SOLUTION

EXPLORER™ 700 – SolStar™ T-55 Foldable Solar Panel



Document Name: EXPLORER™ 700 – SolStar™ T-55 Foldable Solar Panel

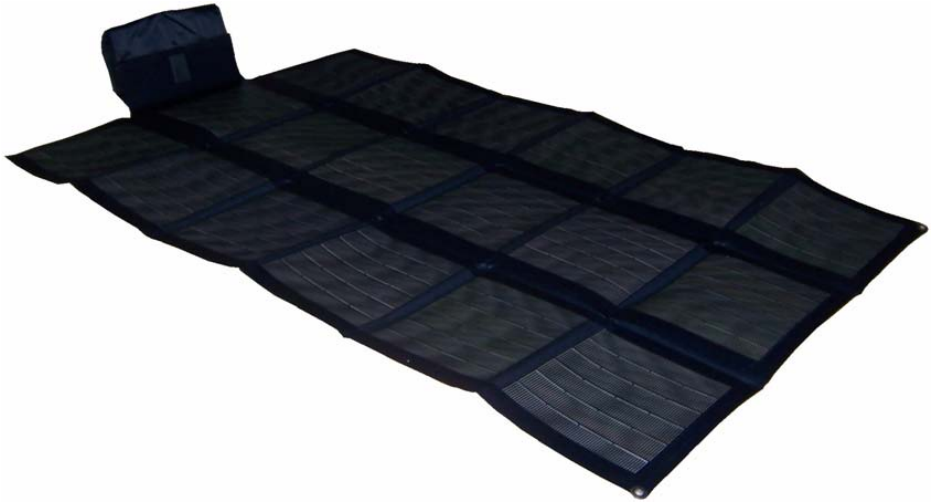
Revision: D

Introduction: This document describes the T-55 foldable solar panel from SolStar™ in connection with the EXPLORER™ 700 terminal.

- Typical Applications:
- ▶ Aid
 - ▶ Government and military
 - ▶ Disaster Relief
 - ▶ Expeditions

Product Description: The SolStar™ T-55 is a flexible and foldable thin-film 12 Volt solar panel.

- ▶ Compact, can easily fit in a backpack, carrying bag or in the front pocket of the EXPLORER™ 700 soft bag
- ▶ Durable design for transporting
- ▶ Weather resistant, performs well in hot and cold conditions
- ▶ Available in black or desert camouflage
- ▶ 1 year warranty



SolStar™ T-55 unfolded

SolStar™ T-55 solar panel specifications:

Typical Power at STC	: 55 Watt
Nominal Operating Voltage	: 16 Volts
Nominal Rated Current	: 2.8 Amps
Weight	: 3.7 lb (1.7 kg)
Dimensions, unfolded	: 55" x 32" x 0.1" (1400 x 813 x 2.5mm)
Dimensions, folded	: 11" x 9" x 1.3" (279 x 229 x 33mm)
Max power to weight ratio	: 14.9 Watt/lb (32.4 Watt/kg)

SolStar™ T-55 product information: http://www.solstarenergy.com/thrane700_solar_charger.htm

SatWest contact details:

E-mail	mailto:info@solstarenergy.com
Phone	+1 505 255 2499
Web site	http://www.solstarenergy.com

Thrane & Thrane contact details:

E-mail	mailto:solutions@thrane.com
Phone	+45 3955 8800
Web site	http://www.thrane.com

Tested on products:

EXPLORER™ 700

1.02

Instructions:

How to connect the SolStar™ solar panel to EXPLORER™ 700 terminal:

1. Unfold the T-55 solar panel and point it towards the sun for optimal charging
2. Plug one end of the 8 foot extension chord to the EXPLORER™ terminal DC input
3. Connect the SAE plug to the SolStar™ solar panel
4. The EXPLORER™ terminal will automatically be powered on and start charging once it is connected to the solar panel.

Folding instructions for the SolStar™ T-55 solar panel:

- Step 1: Fold one side of the panel down the hinge-fold, active solar cells to the inside.

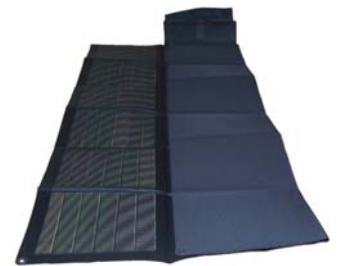


Figure 1.

- Step 2: Fold other side of the panel down the second hinge-fold, active solar cells to the inside.

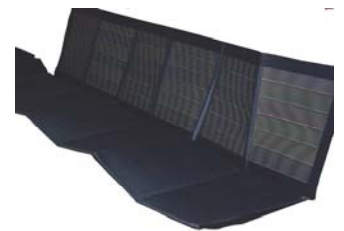


Figure 2.

- Step 3: Starting at the end away from the cable, fold the panel along its hinge-folds.



Figure 3.

- Step 4: Then wrap the flap around until both the hook and loop sides of the Velcro are lined up.



Figure 4.

- Step 5: Lastly, press the Velcro together to secure the fold unit.



Figure 5.

It is recommended to set the Power Up Mode in the EXPLORER™ 700 to Manual, so it does not power up automatically each time the solar panel is connected. Please follow the steps on next page.

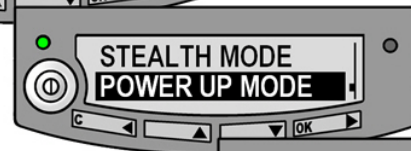
Step 1:
Press the ▼ button.



Step 2:
Press the ▼ button until
SETTINGS appear.
Press OK.



Step 3:
Press the ▼ button until POWER UP MODE
appears. Press the OK button.



Step 4:
Press the ▼ button once and select MANUAL by pressing OK.



Maintenance:

- ▶ Make sure that there is no dirt or moisture inside the connector.
- ▶ When disconnecting a device from the panel, do not pull on the cable; always hold onto the connector.
- ▶ Keep the front of the panel clean. Do not expose to sharp objects. The panel can be cleaned with a wet cloth and a mild soap solution when necessary.

You can preserve power by following below guidelines:

- ▶ Point the EXPLORER™ antenna carefully to obtain best possible signal strength.
- ▶ Upgrade the EXPLORER™ 700 software version to 1.02 or latest software release (Advanced Power Management).
- ▶ Switch OFF the EXPLORER™ 700 when not used for more than 30 min.
- ▶ Turn OFF the interfaces you have no plans of using (please refer to EXPLORER™ 700 User Manual, Chapter 4).
- ▶ Set Backlight to Timed (is set to 10 seconds by default).

Need more power?

- ▶ Spare EXPLORER™ 700 battery (part no. TT-3686P).

Note:

Although the SolStar™ T-55 may be used to power other electronic devices the SolStar™ T-55 has been optimized to power the EXPLORER™ 700 terminal. Other electronic devices may be charged at the consumer's own risk.

Always fold the product with the solar panel photovoltaic side facing out.

Tested:

Test performed:

- #1 Charging in direct sunlight while being on-line with the EXPLORER™ 700 terminal and the EXPLORER™ Bluetooth Handset ready to receive an incoming call. Total charge time 2 hours and 40 min.

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