

MAINTENANCE FREE, RENEWABLE SOLUTIONS TO MAXIMIZE BATTERY LIFE & PROLONG POWER SUPPLY

AVAILABLE IN THE FOLLOWING CONFIGURATIONS:

100W
SOLAR KIT

160W
SOLAR KIT

100W
EXPANSION KIT

160W
EXPANSION KIT

APPLICATIONS:



The Xantrex Solar 100W and 160W kits feature solar modules with 5 Busbars and PERC (Passivated Emitted and Rear Cell) technology, a special cell technology that increases module efficiency significantly over standard solar cells.

Both solar kits include a 30A charge controller and system hardware that is designed for a fast & easy installation, including PV cables & battery cables with a built-in fuse and ring terminals, built-in ferrule terminations for quick connections to the charge controller, mounting brackets, and leakproof roof-entry cable grommets. Easily customize and extend your solar system using our expansion kits.

15% SMALLER & LIGHTER* **BEST IN CLASS 18%** MODULE EFFICIENCY* **PERC** TECHNOLOGY** **5 YEAR** WARRANTY ON PANEL CONSTRUCTION **5 BUSBAR** TECHNOLOGY***

*Xantrex 100W rigid panel specs and performance compared with 100W models of other popular brands

**competitor panels do not currently use PERC technology

***Most brands use 2-4 busbars, more busbars means better efficiency & durability

CONTENTS

Solar Module

- The Xantrex Solar 100W and 160W kits feature solar modules with 5 Busbars and PERC (Passivated Emitted and Rear Cell) technology, a special cell technology that increases module efficiency significantly over standard solar cells.

Charge Controller

- A 30A Pulse-Width Modulation (PWM) flush-mounted charge controller is provided to charge and protect your batteries. Featuring an LCD screen, multi-stage battery charging, charging protections, two USB ports and real-time system indicators.

PV and Battery Cables

- Weather resistant and certified cables are provided to connect your PV modules to your charge controller and from your charge controller to your battery. The PV cables and battery cables, with a built-in fuse and ring terminals, built-in ferrule terminations for quick connections to the charge controller.

Roof-Entry Cable Grommets

- Leak proof cable grommets are provided to ensure that your PV cables enter through the roof of your RV for a quick and worry free installation. UL rated material, UV rated, flammability rated and IP67 rated, so no need for water resistant sealant.

Mounting Brackets & Hardware

- Mounting brackets, cable clamps and tie wraps are included.

Expansion Kits

- Include solar modules, mounting brackets and hardware and a pair of male and female branch connectors to connect solar modules in parallel.

www.xantrex.com CUSTOMER CARE: 1.800.670.0707

ELECTRICAL DATA

MODULE TYPE	100W	160W
Maximum power-Pmax (W) at STC*	100	160
Maximum power voltage-Vmp (V)	19.2	19.2
Maximum power current-Imp (A)	5.21	8.34
Open circuit voltage-Voc (V)	23.0	23.0
Short-circuit current-Isc (A)	5.51	8.70
Module efficiency μ m (%)	17.8	18
Maximum System Voltage	600VDC	600VDC
Maximum Series Fuse Rating	10A	10A

*Standard Test Conditions (STC): Irradiance: 1000W/m², Cell Temperature: 25°C, Air Mass: 1.5

REGULATORY

SAFETY:

Certified to UL1703 and ULC/ORD-C1703 - Standard for Safety Flat-Plate Photovoltaic Modules and Panels
 Certified to IEC 61730 - Photovoltaic Module Safety Qualification Part 1&2
 Certified to CE

PERFORMANCE:

Certified to IEC 61215 - Crystalline Silicon Terrestrial Photovoltaic (PV) Modules - Design
 Qualification and Type Approval

MECHANICAL DATA

MODULE TYPE	100W	160W
Cell Type	Monocrystalline PERC	Monocrystalline PERC
Number of cells	36 (4x9)	36 (4x9)
Glass	3.2mm high transmission, low iron, tempered glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized aluminum alloy	Anodized aluminum alloy
Junction box	IP65 or IP67 rated, UL/TUV certified	IP65 or IP67 rated, UL/TUV certified
Connector	MC4	MC4
Weight	6.8kg	10.5kg
Dimension	840mm x 670mm x 30mm	1350mm x 670mm x 35mm

TEMPERATURE DATA

MODULE TYPE	100W	160W
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C
Nominal operating cell temperature	45 +/- 2 °C	45 +/- 2 °C
Temperature coefficients of Pmax	-0.40%/°C	-0.40%/°C
Temperature coefficients of Voc	-0.50%/°C	-0.50%/°C
Temperature coefficients of Isc	0.08%/°C	0.08%/°C

SOLAR KITS

Mfg Part #	Description
780-0100-01	100W Solar Kit
780-0160-01	160W Solar Kit

EXPANSION KITS

Mfg Part #	Description
780-0100-02	100W Solar Expansion Kit
780-0160-02	160W Solar Expansion Kit

ACCESSORIES

Mfg Part #	Description
708-0020	PWM Charge Controller 30A
C12	C Series PWM 12A
C35	C Series PWM 35A
C40	C Series PWM 40A
C60	C Series PWM 60A
708-0030	PV Extension Cables (15')
708-0040	PV Single Connector (1 Pair)
708-0050	PV Branch Connector (1 Pair)
708-0060	PV Connector Assembly Tool
708-0070	Mounting Hardware
708-0080	Remote Battery Temperature Sensor

