

# xantrex™ SOLAR

## FLEX KIT DATASHEET

AVAILABLE IN:  
**110W**



## FLEXIBLE AND LIGHT, IDEAL FOR CURVED SURFACES

The 110W Xantrex Solar flex kit features a flexible solar panel with 5 busbars and PERC (Passivated Emitter and Rear Contact) mono-crystalline cells, a special cell technology that increases module efficiency significantly over standard solar cells. Designed with a highly protective top-layer called ETFE (Ethylene-Tetra-Fluoro-Ethylene), this allows for better light transmittance, corrosion resistance, stain-resistance, weather resistance, and overall superior durability over a wide temperature range, compared to non-ETFE semi-flexible panels.

The solar flex kit includes 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 and built-in ferrule terminations for quick connections to the charge controller. To install the panel, drill the included screws through grommets on the panel or use glue (sold separately).

Easily customize and extend your solar system using our expansion kits.

UP TO  
**30°**  
OF FLEXIBILITY

**PERC**  
TECHNOLOGY \*

**5 BUSBAR**  
TECHNOLOGY \*\*

**ETFE**  
PROTECTION \*\*\*

\*competitor panels do not currently use PERC technology

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

\*\*\*Ethylene-Tetra-Fluoro-Ethylene - extends the lifespan of the panel compared to non-ETFE panels

### APPLICATIONS:



**2 YEAR**  
**WARRANTY\***

\*WARRANTY ON PANEL CONSTRUCTION

[www.xantrex.com](http://www.xantrex.com)  
CUSTOMER CARE: 1.800.670.0707

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# WHAT'S INCLUDED



SOLAR PANEL

PV CABLES  
READY TO USE  
'PLUG & PLAY'BATTERY CABLES  
READY TO USE  
'PLUG & PLAY'

30A CHARGE CONTROLLER

MOUNTING SCREWS, CABLE TIES  
AND CLAMPS

MC4-TYPE CONNECTOR



110W XANTREX SOLAR FLEX KIT

## EXPAND YOUR SOLAR KIT

# of panels that can be wired in only parallel per 30A charge controller:

110W Panels:

4

## CONTENTS

### Solar Panel

- A 110W solar panel with 5 busbars and PERC (Passivated Emitter and Rear Contact) mono-crystalline cells, 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 the solar panel to the charge controller and from the charge controller to the 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.

### Mounting Hardware

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

### Expansion Kits

- Includes solar panel, mounting hardware and a pair of male and female branch connectors to connect solar panels in parallel.

## EXPANSION KITS

EXPAND YOUR SOLAR KIT



110W PANEL

MOUNTING SCREWS, CABLE TIES  
AND CLAMPS

BRANCH CONNECTOR

## RECOMMENDED POWER SOLUTIONS

COMPLETE YOUR ELECTRICAL SYSTEM

FREEDOM XC  
INVERTER/CHARGERFREEDOM SW  
INVERTER/CHARGER

## ELECTRICAL DATA

PANEL TYPE	110W
Maximum power-Pmax (W) at STC*	110
Maximum power voltage-Vmp (V)	18.9
Maximum power current-Imp (A)	5.83
Open circuit voltage-Voc (V)	23.3
Short-circuit current-Isc (A)	5.95
Module efficiency $\mu\text{m}$ (%)	16.5
Maximum system voltage	$\leq 30\text{VDC}$
Maximum series fuse rating	20A

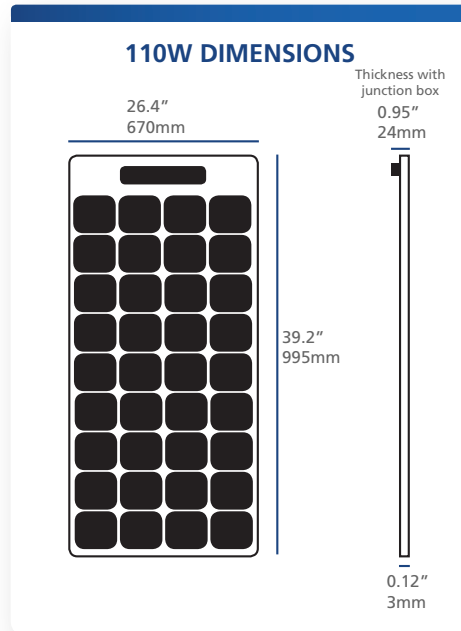
\*Standard Test Conditions (STC): Irradiance: 1000W/m<sup>2</sup>, Cell Temperature: 25°C, Air Mass: 1.5

## MECHANICAL DATA

PANEL TYPE	110W
Cell type	Mono-crystalline PERC
Top layer protection	ETFE
Junction box	IP68 rated
Connector	MC4 - type
Number of cells	36 (4 x 9)
Weight	5.51lbs (2.5kg)
Dimensions	39.2in x 26.4in x 0.12in (0.95in thick at junction box) 995mm x 670mm x 3mm (24mm thick at junction box)
Charge controller dimensions	7.3in x 4in x 2.4in 181mm x 100.9mm x 59.8mm

## TEMPERATURE DATA

PANEL TYPE	110W
Operating temperature	-40 °C to +85 °C
Temperature coefficients of Pmax	-0.38%/°C
Temperature coefficients of Voc	-0.36%/°C
Temperature coefficients of Isc	0.07%/°C

**SOLAR KITS**

Mfg Part #	Description
781-0100-01	110W Xantrex Solar Flex Kit

**EXPANSION KITS**

Mfg Part #	Description
781-0100-02	110W Xantrex Solar Flex Exp Kit

**ACCESSORIES**

Mfg Part #	Description
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
708-0080	Remote Battery Temperature Sensor
708-0090	Roof Entry Cable Plate
708-0100	PV Connector-to-SAE PV Adapter Cable (2')

**UPC CODES**

110W SOLAR FLEX KIT



110W EXPANSION KIT

**SHIPPING INFO**

Mfg Part #	Estimated Weight (Kg)	Unit Dimensions (mm)	Master Carton Dimensions	Units in Pallet
781-0100-01	5.7	115 x 710 x 1220	No Master Carton	20
781-0100-02	3.2	115 x 710 x 1220	No Master Carton	20

**CONTACT****CUSTOMER SERVICE**

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 6:30am - 4:30pm PST, Monday to Friday



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