

AVAILABLE IN:

80W 165W 220W

NO DRILLING, PEEL & STICK FLEXIBLE PANELS

The Xantrex Solar Max 80W, 165W, and 220W flex kits, feature solar panels with a mesh grid-technology that provides superior durability and performance benefits. With approximately 2000 points of contact per cell, this mesh grid-technology allows the panel to flex up to 180 degrees, without impacting power output. Subjected to extreme environmental and accelerated lifecycle testing beyond regulatory standards, the Max panel was tested to be 50 times more durable than a standard flexible panel. Also 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. In addition, the Max panel can harvest up to 20% more energy during the day in low light or shaded conditions compared to a standard solar panel.

The Max panels also feature a peel-and-stick adhesive backing that removes the need to glue or drill your flexible panel. The Max 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 and built-in ferrule terminations for quick connections to the charge controller. Easily customize and extend your solar system using our expansion kits.

180°

50x

20%



2000
POINTS OF CONTACT PER CELL

*Results compared to a standard flexible panel with busbar technology **During low light and shaded conditions

APPLICATIONS:









www.xantrex.com
CUSTOMER CARE: 1.800.670.0707

80W Panels:

165W Panels:

220W Panels

WHAT'S INCLUDED



CONTENTS

Solar Panel

• a 80W, 165W or 220W solar panel featuring the new state-of-the-art mesh grid technology, which significantly increases durability and performance over standard flex panels.

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.

Expansion Kits

• Includes solar panel and a pair of male and female branch connectors to connect solar panels in parallel.

EXPANSION KITS

EXPAND YOUR SOLAR KIT



80W, 165W OR 220W PANEL



RECOMMENDED POWER SOLUTIONS

COMPLETE YOUR ELECTRICAL SYSTEM



FREEDOM XC INVERTER/CHARGER



FREEDOM SW INVERTER/CHARGER

ELECTRICAL DATA

PANEL TYPE	80W	165W	220W
Maximum power-Pmax (W) at STC*	80	165	220
Maximum power voltage-Vmp (V)	18.9	19.3	25.8
Maximum power current-Imp (A)	4.23	8.54	8.54
Open circuit voltage-Voc (V)	23.0	23.3	31.0
Short-circuit current-lsc (A)	4.36	8.81	8.81
Module efficiency μm (%)	18.2	18.76	18.8
Maximum system voltage	≤30VDC	600VDC	600VDC

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

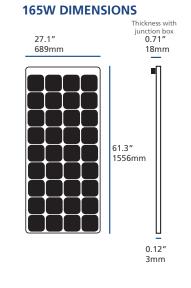
MECHANICAL DATA

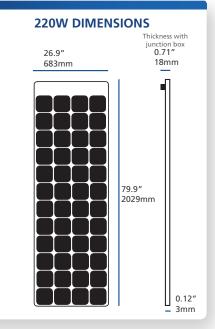
PANEL TYPE	80W	80W 165W		
Cell type	Mono-crystalline	Mono-crystalline	Mono-crystalline	
Top layer protection	ETFE	ETFE ETFE		
Junction box	IP68 rated	IP68 rated IP68 rated		
Connector	MC4 - type	MC4 - type	MC4 - type	
Number of cells	36 (6 x 6)	36 (4 x 9)	48 (4 x 12)	
Weight	4.6lbs (2.1kg)	10.2lbs (4.62kg)	10.8lbs (4.9kg)	
Dimensions	24in x 38.6in x 0.12in (0.7in thick at junction box) 609mm x 981mm x 3mm (17mm thick at junction box)	ck at junction box) (0.71in thick at junction box) 981mm x 3mm 1556mm x 689mm x 3mm		
Charge controller dimensions	7.3in x 4in x 2.4in 181mm x 100.9mm x 59.8mm			

TEMPERATURE DATA

PANEL TYPE	80W	165W	220W	
Operating temperature	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	
Temperature coefficients of Pmax	-0.42%/°C	-0.42%/°C	-0.42%/°C	
Temperature coefficients of Voc	-0.33%/°C	-0.33%/°C	-0.33%/°C	
Temperature coefficients of Isc	0.05%/°C	0.05%/°C	0.05%/°C	

80W DIMENSIONS 24" 609mm 17mm 38.6" 981mm 0.12" 3mm





SOLAR KITS

	Mfg Part #	Description	
	784-0080-01	80W Xantrex Solar Max Flex Kit	
784-0165-01		165W Xantrex Solar Max Flex Kit	
	784-0220-01	220W Xantrex Solar Max Flex Kit	

EXPANSION KITS

Mfg Part #	Description	
784-0080-02 80W Xantrex Solar Max Exp		
784-0165-02	165W Xantrex Solar Max Exp Kit	
794-0220-02	220W Xantrex Solar Max 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
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









80W SOLAR MAX KIT 165W SOLAR MAX KIT 220W SOLAR MAX KIT





SHIPPING INFO

Mfg Part #	Estimated Weight (Kg)	Unit Dimensions (mm)	Master Carton Dimensions	Units in Pallet
784-0080-01	6.2	115 x 840 x 1020	No Master Carton	20
784-0080-02	3.8	115 x 840 x 1020	No Master Carton	20
784-0165-01	7.9	115 x 730 x 1790	No Master Carton	10
784-0165-02	5.5	115 x 730 x 1790	No Master Carton	10
784-0220-01	8.2	115 x 730 x 2290	No Master Carton	10
784-0220-02	5.8	115 x 730 x 2290	No Master Carton	10

CONTACT

CUSTOMER SERVICE

1.800.670.0707 customerservice@xantrex.com Hours of operation: 6:30am - 4:30pm PST, Monday to Friday



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