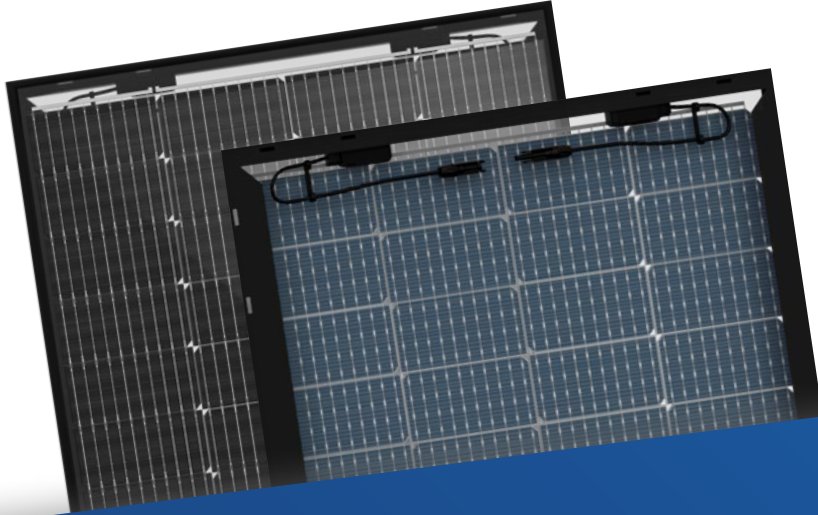


xantrex™ SOLAR MAX

SOLAR MAX GLASS PANEL DATASHEET



AVAILABLE IN:

90W
210W
240W
355W
490W

MAXIMIZE ENERGY PRODUCTION WITH BIFACIAL SOLAR PANELS

Xantrex Solar Max Glass Panels are bifacial: harnessing energy from both sides of the panel, boosting total electricity production and efficiency. Bifacial PERC (Passivated Emitter Rear Cell) panels are at the forefront of solar energy solutions and are engineered to deliver higher performance through optimized energy absorption. Enhanced reliability and durability are achieved with a 10 bus-bar design, employing fracture-tolerant Monocrystalline PERC M10 cells arranged in a half-cell format to improve shade performance and maximize efficiency. The result is a robust, premium glass panel with an unbeatable PCOE (Power Cost of Energy).

Xantrex Solar Max Glass Panels are suitable to provide off-grid power for a variety of applications including RV, marine, work truck, heavy-duty truck, and emergency vehicle applications.



Highest reliability and enhanced crack tolerant 10 bus bar module



Highly efficient Mono PERC M10 cells



Exceptional value in power to cost ratio



Module-utilizing half cut cell for optimum performance



Superior performance in handling temperature changes



Shade tolerance for continuous power generation in shaded environments

APPLICATIONS:

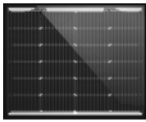


10 YEAR
WORKMANSHIP
WARRANTY

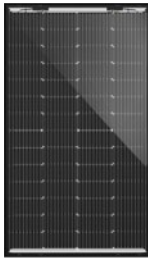
25 YEAR
PERFORMANCE
WARRANTY

www.xantrex.com
CUSTOMER CARE: 1.800.670.0707

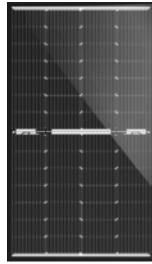
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V2. 06.12.2024



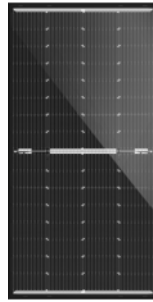
90W



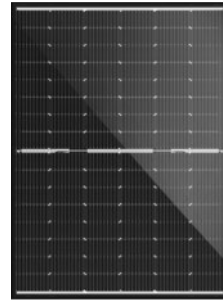
210W



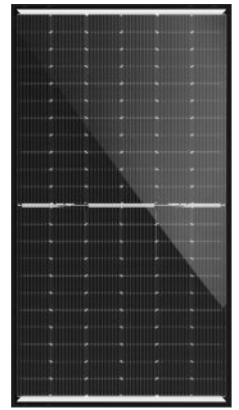
210W Shade Tolerant



240W Shade Tolerant



355W Shade Tolerant

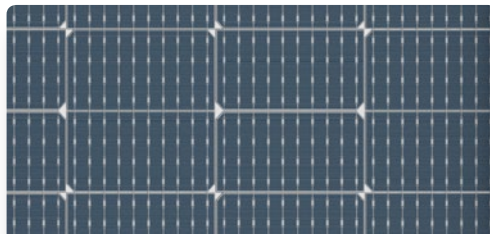


490W Shade Tolerant

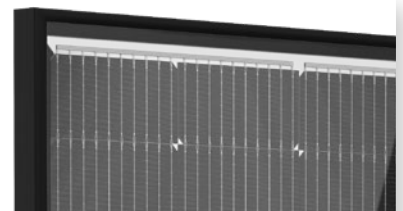
KEY SOLAR PANEL COMPONENTS



MC4-type connector



Mono PERC 10 cells for optimizing power output via additional lightcells



Black anodized aluminum frame

COMPLETE YOUR SOLAR SYSTEM



MPPT Charge
Controller 30A
(710-3024-01)



MPPT Charge
Controller 60A
(710-6048-01)



PWM Charge
Controller 30A
(709-3204-01)



Solar & Battery
Cable Starter Kit
(708-0150)

RECOMMENDED POWER SOLUTIONS

COMPLETE YOUR ELECTRICAL SYSTEM



FREEDOM X
Inverter
(817-1000, 817-2000, 817-3000,
806-1212, 806-1212-05)



FREEDOM XC
Inverter/Charger
(817-1050, 817-2080)



FREEDOM XC Pro
Inverter/Charger
(818-2010, 818-3010,
818-2015, 818-3015)



FREEDOM SW
Inverter/Charger
(815-2012, 815-3012, 815-3012-02,
815-2024, 815-3024)



FREEDOM EX 4000
Converter
(820-4080-41)

ELECTRICAL DATA

PANEL TYPE	90W	210W	210W ST*	240W ST*	355W ST*	490W ST*
Part Number	785-0090	785-0210	785-0210-01	785-0240	785-0355	785-0490
Maximum power-Pmax (W) at STC**	90	210	210	240	355	490
Maximum power voltage-Vmp (V)	13.9	32.6	16.3	18.6	27.5	37.9
Maximum power current-Imp (A)	6.5	6.4	12.9	12.9	12.9	12.9
Open circuit voltage-Voc (V)	16.6	38.6	19.3	22.1	33.1	45.5
Short-circuit current-Isc (A)	6.8	6.7	13.6	13.6	13.6	13.6
Maximum system voltage (V)	1500	1500	1500	1500	1500	1500

MECHANICAL DATA

PANEL TYPE	90W	210W	210W ST*	240W ST*	355W ST*	490W ST*
Cell type	Mono PERC M10	Mono PERC M10	Mono PERC M10	Mono PERC M10	Mono PERC M10	Mono PERC M10
Top/Back-Layer	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass	Tempered glass
Junction box	IP67 rated	IP67 rated	IP67 rated	IP67 rated	IP67 rated	IP67 rated
Connector	MC4 - type	MC4 - type	MC4 - type	MC4 - type	MC4 - type	MC4 - type
Number of cells	24 (182 x 91 mm)	56 (182 x 91 mm)	56 (182 x 91 mm)	64 (182 x 91 mm)	64 (182 x 91 mm)	132 (182 x 91 mm)
Weight	13.2 lb (6 kg)	26.4 lb (12 kg)	26.4 lb (12 kg)	29.7 lb (13.5 kg)	42.9 lb (19.5 kg)	49.6 lb (22.5 kg)
Dimensions (L x W x D)	24.4 x 30.3 x 1.3 in (620 x 771 x 35 mm)	53.5 x 30.3 x 1.3 in (1359 x 771 x 35 mm)	54.4 x 30.5 x 1.3 in (1383 x 775 x 35 mm)	61.7 x 30.5 x 1.3 in (1569 x 775 x 35 mm)	61.7 x 45.0 x 1.3 in (1569 x 1143 x 35 mm)	83.7 x 45.0 x 1.3 in (2127 x 1143 x 35 mm)
Frame	Black anodized aluminum alloy	Black anodized aluminum alloy	Black anodized aluminum alloy	Black anodized aluminum alloy	Black anodized aluminum alloy	Black anodized aluminum alloy
Shade Tolerant	No	No	Yes	Yes	Yes	Yes

TEMPERATURE DATA

PANEL TYPE	90W	210W	210W ST*	240W ST*	355W ST*	490W ST*
Operating temperature	-40-85°C	-40-85°C	-40-85°C	-40-85°C	-40-85°C	-40-85°C
Temperature coefficients of Pmax	-0.34%/ °C	-0.34%/ °C	-0.34%/ °C	-0.34%/ °C	-0.34%/ °C	-0.34%/ °C
Temperature coefficients of Voc	-0.25%/ °C	-0.25%/ °C	-0.25%/ °C	-0.25%/ °C	-0.25%/ °C	-0.25%/ °C
Temperature coefficients of Isc	+0.05%/ °C	+0.05%/ °C	+0.05%/ °C	+0.05%/ °C	+0.05%/ °C	+0.05%/ °C

*Shade Tolerant

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

SOLAR MAX GLASS PANELS

Mfg Part #	Description
785-0090	90W Xantrex Solar Max Glass Panel
785-0210	210W Xantrex Solar Max Glass Panel
785-0210-01	210W Xantrex Solar Max Glass Panel Shade Tolerant
785-0240	240W Xantrex Solar Max Glass Panel Shade Tolerant
785-0355	355W Xantrex Solar Max Glass Panel Shade Tolerant
785-0490	490W Xantrex Solar Max Glass Panel Shade Tolerant

CHARGE CONTROLLERS

Mfg Part #	Description
C12	C Series PWM 12A
C35	C Series PWM 35A
C40	C Series PWM 40A
C60	C Series PWM 60A
709-3024-01	Xantrex Solar PWM 30A Charge Controller
710-0010	Xantrex Solar MPPT Remote Panel
710-3024-01	Xantrex Solar MPPT 30A Charge Controller
710-6048-01	Xantrex Solar MPPT 60A Charge Controller

ACCESSORIES

Mfg Part #	Description
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
708-0150	Solar & Battery Cable Starter Kit

XANTREX SOLAR MAX GLASS PANEL DIMENSIONS

90W

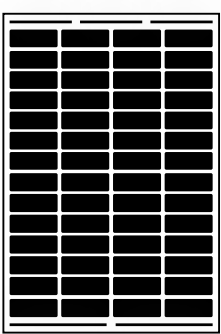
30.3"
771 mm



24.4"
620 mm

210W

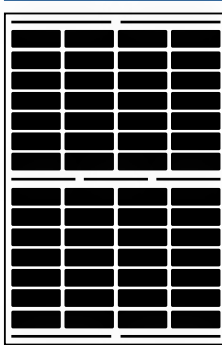
30.3"
771 mm



53.5"
1359 mm

210W ST

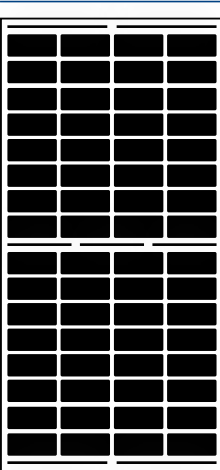
30.5"
775 mm



54.4"
1383 mm

240W ST

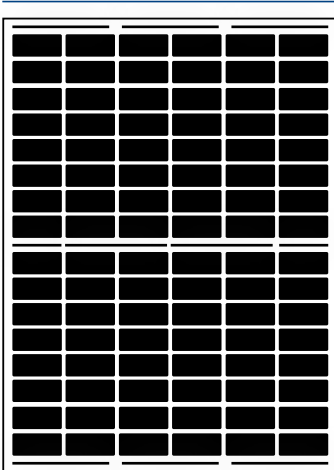
30.5"
775 mm



61.7"
1569 mm

355W ST

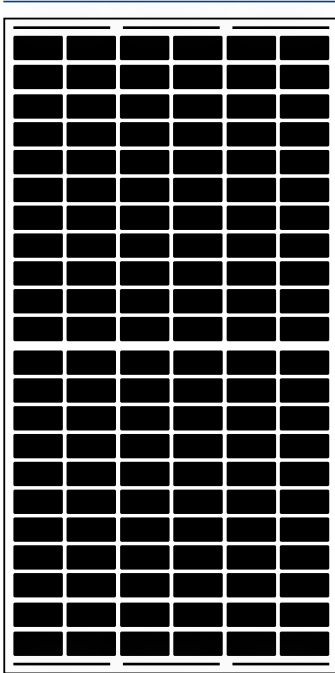
45.0"
1143mm



61.7"
1569 mm

490W ST

45.0"
1143 mm



83.7"
2127 mm

CONTACT

CUSTOMER SERVICE

1.800.670.0707
customerservice@xantrex.com

Hours of operation:
6:30am - 4:30pm PT, Monday to Friday



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