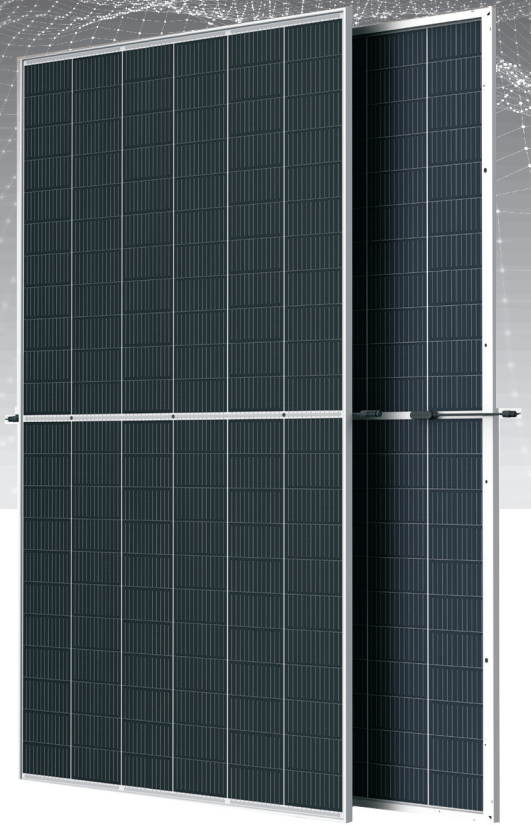


# 640-670W

## XP- 670W- 162BDG 132Cells

Bifacial Dual Glass Monocrystalline Module



### Comprehensive Products and System Certificates

OHSAS 18001: Occupational Health and Safety Management System

ISO 14001: Environmental Management System

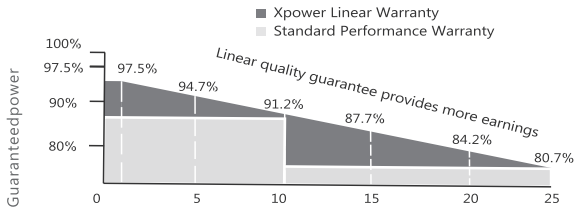
ISO 9001: Quality Management System



### Linear Performance Warranty

**15** YEARS  
Product quality & process guarantee

**25** YEARS  
Linear power guarantee



### Product Insurance



Half-cut cell technology  
New circuit design,  
lower internal current, lower Rs loss



M10 wafer with gallium-doped technology



Resistant to salt-spray corrosion  
(IEC61701, certified to TÜV Rheinland test standard)



Special circuit design  
With much lower hot spot temperature



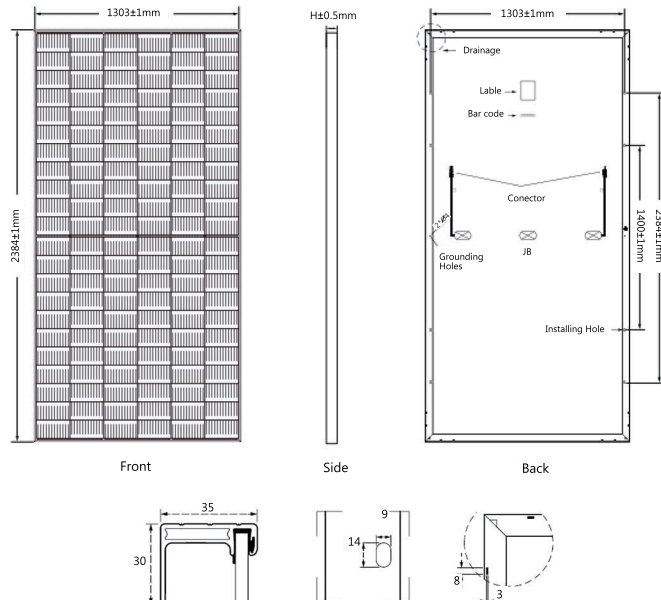
PID FREE  
Resistant to power  
Attenuation passed TÜV Rheinland system voltage endurance test



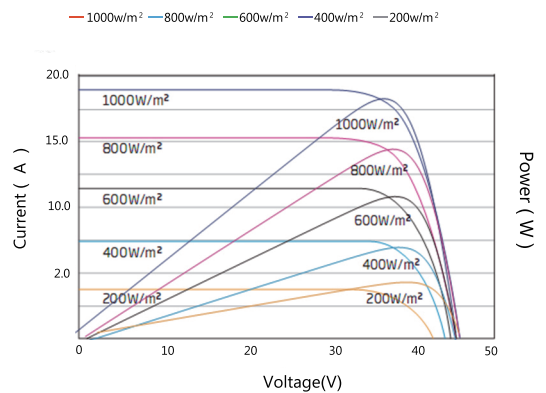
Special cell process ensures great performance under low irradiance conditions

## XP- (640-670)- 132BDG Monocrystalline Module

### DESIGN



### Current-Voltage & Power-Voltage Curves(645W)



### STRUCTURAL CHARACTERISTICS

Module dimensions (L*W*H)	2256 x 1133 x 35mm
Weight	38.6 kg
Number of cells	132 cells
Cell	PERC Monocrystalline 210x105mm
Glass	Tempered, 2.0mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm <sup>2</sup> , wire length:300mm
Connector	MC4 Compatible
Mechanical load	5400Pa

### TEMPERFORMANCE RATINGS

Temperature coefficient (P <sub>max</sub> )	-0.35 %/°C
Temperature coefficient (V <sub>oc</sub> )	-0.28 %/°C
Temperature coefficient (I <sub>sc</sub> )	+0.048 %/°C
Nomial operating cell temperature	45±2 °C

### PACKAGING CONFIGURATION

Container	40HQ
Quantity/pallet	31
Pallets/container	18
Quantity/container	558

### ELECTRIC CHARACTERISTICS

Model of modules	XP-640W-132BDG			XP-650W-132BDG			XP-660W-132BDG			XP-670W-132MDH		
	STC	NOCT	TEP(Wp)	STC	NOCT	TEP(Wp)	STC	NOCT	TEP(Wp)	STC	NOCT	TEP(Wp)
Maximum power – P <sub>mp</sub> (W)	640	485	685	650	492	696	660	500	706	670	508	717
Open-circuit voltage – V <sub>oc</sub> (V)	44.9	42.3	45.1	45.3	42.7	45.5	45.7	43.0	45.9	46.1	43.4	46.3
Short-circuit current – I <sub>sc</sub> (A)	18.34	14.78	19.54	18.44	14.86	19.63	18.57	14.96	19.74	18.62	15.01	19.84
Maximum power voltage – V <sub>mp</sub> (V)	37.0	34.6	37.3	37.4	34.9	37.7	38.0	35.3	38.1	38.2	35.6	38.5
Maximum power current – I <sub>mp</sub> (A)	13.70	14.01	18.39	17.39	14.09	18.48	17.51	14.17	18.56	17.55	14.26	18.63
Module efficiency – η <sub>m</sub> (%) / Irradiance ratio	20.6%		10%	20.9%		10%	21.2%		10%	21.6%		10%
Power tolerance (W)	(0,+5)											
Maximum system voltage (V)	1500V											
Maximum rated fuse current (A)	25											
Current operating temperature (°C)	-40~+85 C											

STC (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20 °C, Spectra at AM1.5, Wind at 1m/s