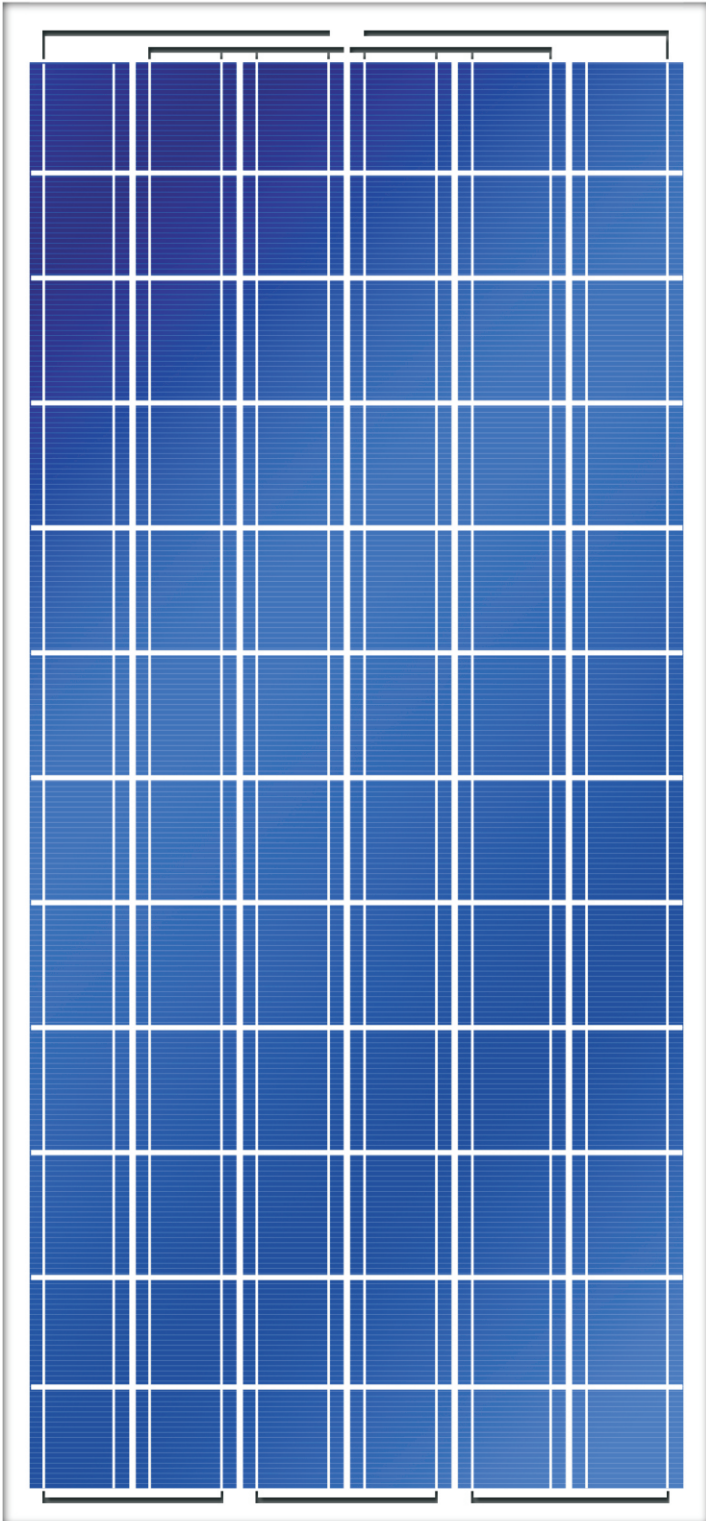


SOLAR MODULE

XL 280 Wp



Technology

The XL 280 Wp Crystalline Solar Modules are Manufactured by using high efficiency Poly Crystalline Cells in its modules to provide unparalleled efficiency, quality and output power.

Quality

XL has established very high quality standards. Constant checks and inspections guarantee uniformly high quality. Each Module which leaves the production line is subjected to thorough visual inspection as well as Mechanical and Electrical Tests.

Certifications

The XL 280 Wp Modules have been Type approved as per the requirements of IEC 61215, IEC 61730. XL has a Quality Management System that is in compliance with the International Quality System ISO 9001:2000 Company.

Technical Product Information

- ❑ High efficiency conversion Cells with Anti reflective front surface coating
- ❑ Bypass Diodes to avoid shading problems
- ❑ Cells protected by High Transmittance, Low-Iron fully Tempered Glass and a layer of Back Sheet and EVA
- ❑ Anodized Aluminium Frame to protect the Laminate with Drain Holes and Mounting Holes to facilitate for Installation on the Mounting Structure
- ❑ Pre-wired with quick connector system



Electrical Characteristics		
Peak Power (-3%, +5%)	P _{max}	280Wp
Rated Voltage	V _{mp}	36.86
Rated Current	I _{mp}	7.62
Open Circuit Voltage	V _{oc}	44.71
Short Circuit Current	I _{sc}	8.14
Maximum System Voltage	IEC	1000 VDC
Maximum Module Efficiency	%	14.2
Series Fuse Rating		15A

Temperature Coefficients	
Nominal Operating Cell Temperature (NOCT)	47 ± 2°C
Temperature Coefficient of P _{max}	-0.47 % / °C
Temperature Coefficient of V _{oc}	-0.36 % / °C
Temperature of Coefficient of I _{sc}	0.056 % / °C

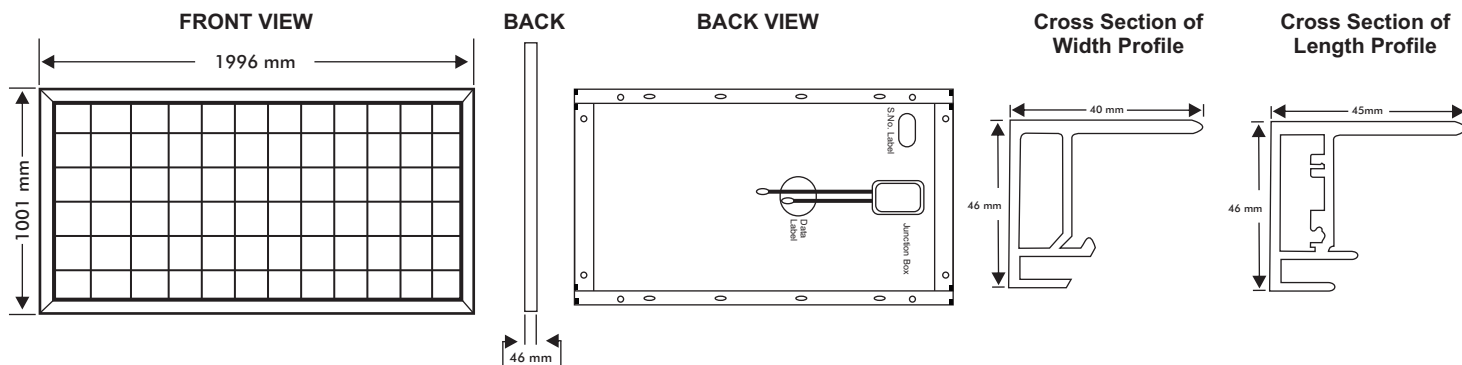
Shipping Details	
Loading Capacity (20 Ft. Container):	210 panels in 10 cartons
Loading Capacity (40 Ft. Container):	462 panels in 22 cartons

Mechanical Dimensions	
Solar Cell	Poly-Crystalline 156 x 156 mm
Cells per Module	72 (6 x 12)
Dimensions	1996 mm x 1001 mm x 46 mm
Weight	24.60 Kg
Front Glass	3.2 mm Tempered Glass
Frame	Anodized Aluminum Frame (Double Walled)
Junction Box	IP 65 rated with 3 bypass diodes, Make: Cixi Renhe
Output Cables	4.0 mm ² , asymmetrical lengths (-) 1250 mm and (+) 1000 mm

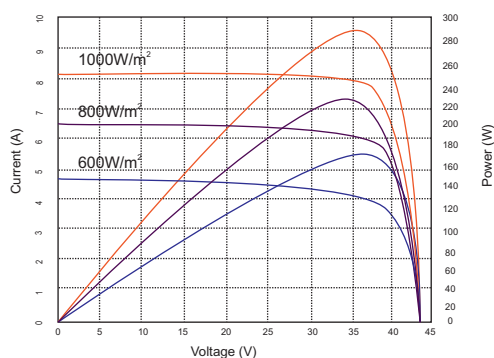
Warranty and Certifications	
Warranty	25 year limited power warranty
	5 year limited product warranty
Certification	TüV, IEC 61215, IEC 61730, CE, ISO 9001:2008

Tested Operating Conditions	
Temperature	-40 °C to +85 °C
Max load	50 psf 245 kg/m ² (2400 Pa) front and back
Impact Resistance	Hailstone impact ø 25 mm at 23 m/s

Physical Specifications



Voltage Characteristics Irradiance Levels



Temperature Dependence of I_{sc}, V_{oc}, P_{max}

