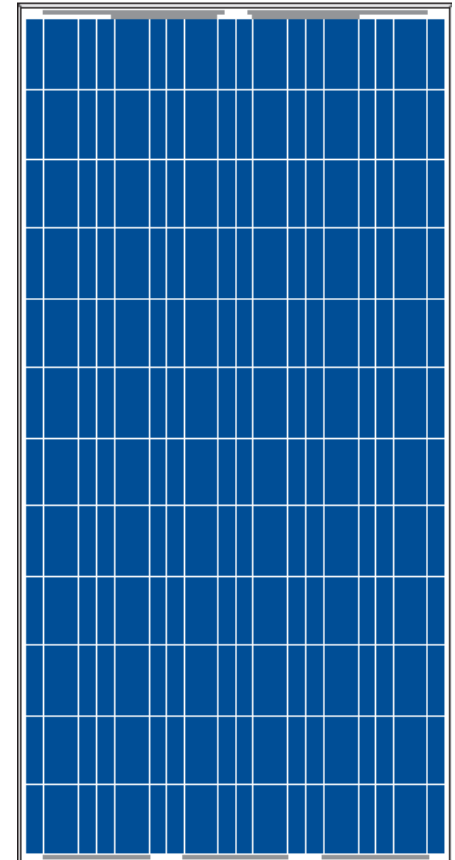




High Efficiency Polycrystalline Photovoltaic Module



Overview

- High cell efficiency with quality silicon material for long term output stability and reliability.
- Rigorous quality control to meet highest international standards.
- High transmittance, low iron tempered glass with enhanced stiffness and impact resistance.
- Unique frame design with high mechanical strength for easy installation.
- Advanced encapsulation material with multilayer sheet lamination to provide long-life and enhanced cell performance.
- Outstanding electrical performance under high temperature and low irradiance conditions.
- 72 polycrystalline high-efficiency solar cells (approx. 16.5%).

Applications

- Any large or small on-grid /off-grid solar power stations.
- Commercial/industrial building roof-top systems.
- Residential roof-top systems.
- Any commercial/industrial ground mount systems.
- Other industrial and commercial applications.

Warranty

- 10 year limited product warranty on materials and workmanship.
- 25 years limited power warranty on power output.
- ≥90% power output assurance for 10 years and ≥80% power output assurance for 25 years.
- Refer to warranty certificate for detailed warranty conditions.

Certifications

- UL1703 ISO 9000:2000
- CE TUV IEC61215 IEC61730



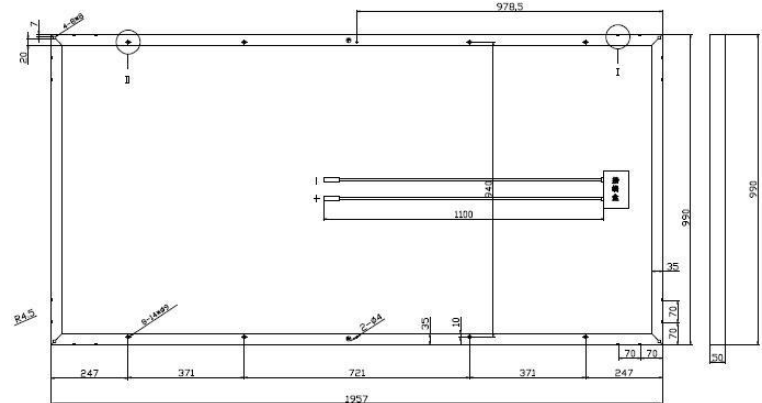
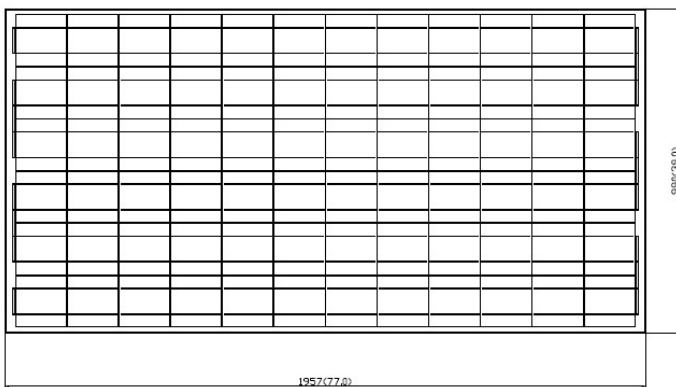
Mechanical Specifications

Characteristic	Details
Cell Size	156mm x 156mm (6.14" x 6.14")
Module Dimension (L x W x T)	1957mm x 990mm x 50mm (77.0" x 38.9" x 1.97")
No. of Cells	6 x 12 = 72
Weight	25.0 kg (55.6 lbs)
Cable Length	1100mm (43.31") for positive (+) and negative (-)
Type of Connector	MC IV
Junction Box (IP65)	Tonglin, type: TL-BOX005B (E181720)
No. of Holes in Frame	4 draining holes, 8 installation holes, 2 ground line holes, 16 air outlet holes

Electrical Specifications(STC* = 25 °C, 1000W/m² irradiance and AM=1.5)

Model	CS-P-280-DJ	
Max System Voltage	600 V	
Max Peak Power P _{max}	280 W (± 3%)	
Maximum Power Point Voltage V _{mpp}	35.3 V	
Maximum Power Point Current I _{mpp}	7.93 A	
Open Circuit Voltage V _{oc}	43.77 V	
Short Circuit Current I _{sc}	8.76 A	
Temperature Coefficient of V _{oc}	-0.153 V / °C	(-0.35% / °C)
Temperature Coefficient of I _{sc}	4.38x10 ⁻³ A / °C	(0.05% / °C)
Temperature Coefficient of P _{max}	-1.26 W / °C	(-0.45% / °C)

*Standard Test Conditions

Physical Specifications mm (in.)**Other Performance Data**

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
± 3%	-40 °C to +85 °C	15 A	48 °C ± 2 °C

*Normal Operating Cell Temperature

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