



Overview

- High efficiency solar cells (approx. 18%) with quality silicon material for high module conversion efficiency and long term output stability and reliability.
- Rigorous quality control to meet the highest international standards.
- High transmittance, low iron tempered glass with enhanced stiffness and impact resistance.
- Unique frame design with strong mechanical strength for greater than 50 lbs/ft² wind load and snow load withstanding and easy installation.
- Advanced encapsulation material with multilayer sheet lamination to provide long-life and enhanced cell performance.
- Outstanding electrical performance under high temperature and weak light environments.



Applications

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

Warranty

- 10 year limited product warranty on materials and workmanship.
- 25 year warranty on >80% power output and 10 year warranty on >90% power output.
- Refer to warranty document for detailed warranty information.

Certifications

- ETL UL-1703 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)	1640mm x 990mm x 40mm (64.6" x 39.0" x 1.6")
No. of Cells	6 x 10 = 60
Weight	18.6 kg (41.0 lbs)
Cable Length	900mm (43.3") for positive (+) and negative (-)
Type of Connector	MC-IV
Junction Box	IP65 or IP67 Rated
No. of Holes in Frame	4 draining holes, 8 installation holes, 2 grounding holes, 16 air outlet holes.

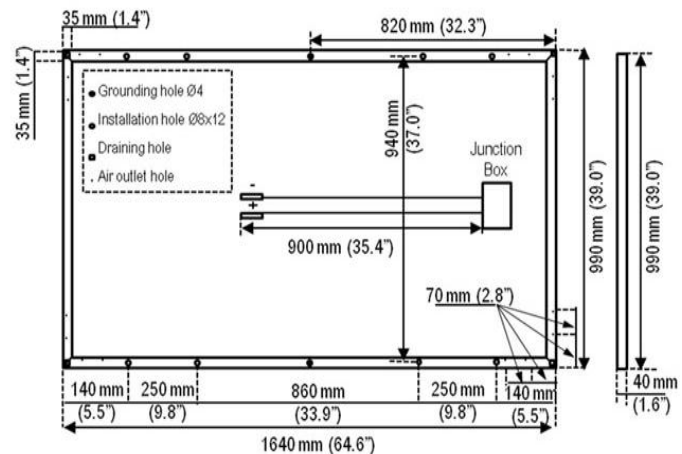
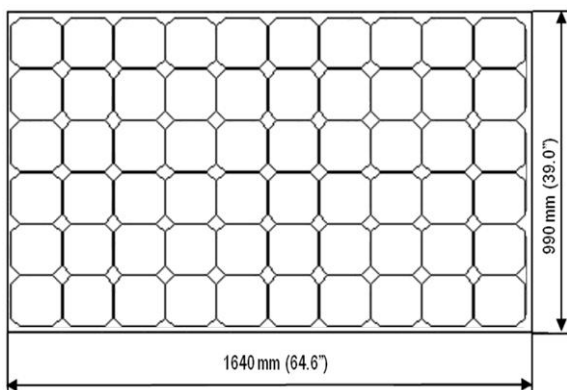
Electrical Specifications

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

Model	GS-S-250-Fab5	
Max System Voltage (IEC/UL)	1000V / 600V	
Maximum Power P _{max}	250 W (-2%, +2%)	
CEC Listed PTC Power	222.1 W	
Voltage at Maximum Power Point V _{mpp}	30.7 V	
Current at Maximum Power Point I _{mpp}	8.15 A	
Open Circuit Voltage V _{oc}	37.7 V	
Short Circuit Current I _{sc}	8.72 A	
Module Efficiency (%)	15.4%	
Temperature Coefficient of V _{oc}	-0.128 V/°C (-0.34% /°C)	
Temperature Coefficient of I _{sc}	3.49x10 ⁻³ A/°C (0.04% /°C)	
Temperature Coefficient of P _{max}	-1.20 W/°C (-0.48% /°C)	

*Standard Test Conditions

Physical Specifications mm (inch)



Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
-2%, +2%	-40 °C to +85 °C	15 A	45 °C ± 2 °C

*Normal Operating Cell Temperature

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