



Overview

- High efficiency solar cells (approx. 18%) with quality silicon material for high module conversion efficiency and long term output stability and reliability.
- Positive power output tolerance from 0% to +3%.
- 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 30 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	125mm x 125mm (4.92" x 4.92")
Module Dimension (L x W x T)	1580mm x 808mm x 40mm (62.2" x 31.8" x 1.6")
No. of Cells	6 x 12 = 72
Weight	15.5 kg (34.2 lbs)
Cable Length	900mm (35.4") for positive (+) and negative (-)
Type of Connector	MC-IV
Junction Box	IP65 Rated
No. of Holes in Frame	4 installation holes, 2 grounding holes, 4 drainage holes, & 16 air outlet holes

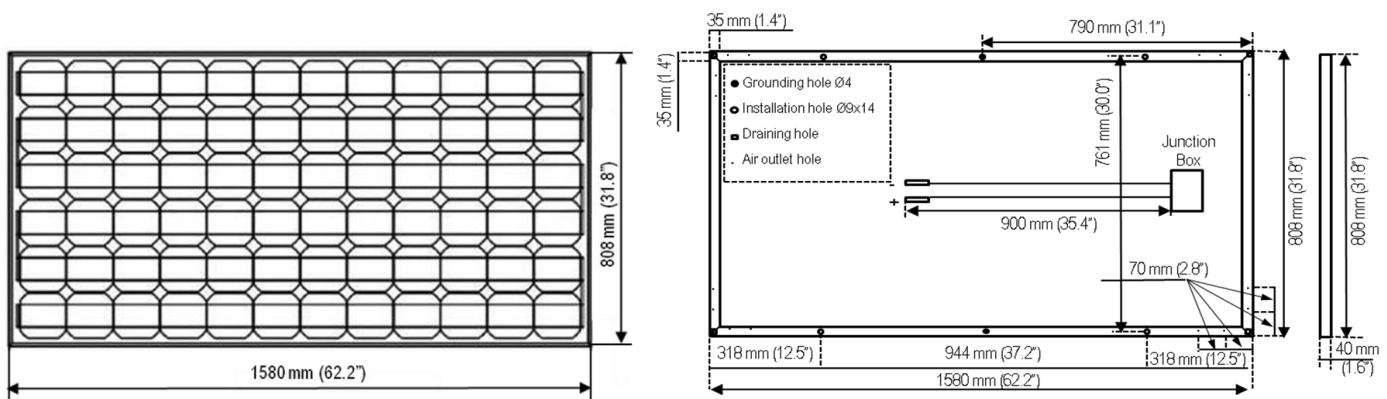
Electrical Specifications

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

Model	GS-S-195-Fab3
Max System Voltage (IEC/UL)	1000V / 600V
Maximum Power P _{max}	195 W (0%, +3%)
CEC Listed PTC Power	173.5 W
Voltage at Maximum Power Point V _{mpp}	36.2 V
Current at Maximum Power Point I _{mpp}	5.38 A
Open Circuit Voltage V _{oc}	45.5 V
Short Circuit Current I _{sc}	5.58 A
Module Efficiency (%)	15.3%
Temperature Coefficient of V _{oc}	-0.159 V/°C (-0.35% /°C)
Temperature Coefficient of I _{sc}	3.1x10 ⁻³ A/°C (0.06% /°C)
Temperature Coefficient of P _{max}	-0.88 W/°C (-0.45% /°C)

*Standard Test Conditions

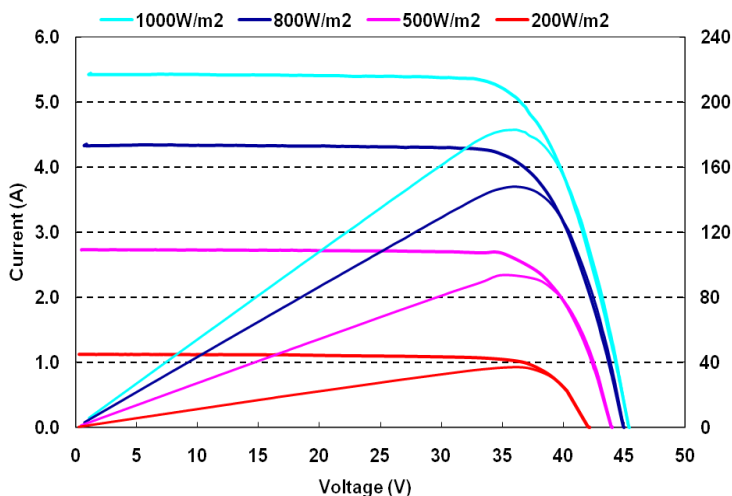
Physical Specifications mm (inch)



Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
0%, +3%	-40 °C to +85 °C	10 A	45 °C ± 2 °C

*Normal Operating Cell Temperature



Typical I-V Curve of 180W ~ 200W PV Modules



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