MODEL: GS-S-160-Fab8



Monocrystalline Photovoltaic Module





Overview

- High efficiency solar cells (approx. 19%) 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

• Emergency Backup, RVs, Pumps, Gates, Electric Fences, Lighting, 12 Volt Battery Charging and much more.

Warranty

- 5 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

CE TUV IEC61215 IEC61730





Mechanical Specifications (note: module dimensions may have +/- 1% variance)

Characteristic	Details	
Cell Size	156mm x 156mm (6.14" x 6.14")	
Module Dimension (L x W x T)	1474mm x 660mm x 35mm (58.0" x 26.0" x 1.38")	
No. of Cells	4 x 9 = 36	
Weight	12 kg (26.4 lbs)	
Cable Length	900mm for positive (+) and negative (-)	
Type of Connector	MC-IV compatible	
Junction Box	IP65 Rated	
No. of Holes in Frame	8 installation holes, 8 drainage holes, 2 grounding	

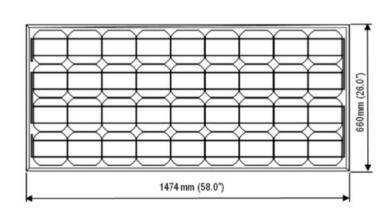
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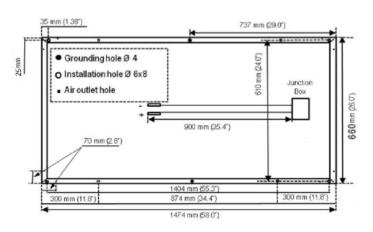
Electrical Specifications (STC* = 25 °C, 1000W/m² Irradiance and AM=1.5)

Model	GS-S-160-Fab8	
Maximum Power P _{max}	160 W (-5%, +5%)	
Voltage at Maximum Power Point V _{mpp}	18.5 V	
Current at Maximum Power Point Impp	8.65 A	
Open Circuit Voltage V _{oc}	22.2 V	
Short Circuit Current Isc	9.46 A	
Module Efficiency (%)	16.4%	
Temperature Coefficient of V₀c	-0.38% /°C	
Temperature Coefficient of Isc	+0.05% /°C	
Temperature Coefficient of P _{max}	-0.50% /°C	

^{*}Standard Test Conditions

Physical Specifications mm





Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*	
-5%, +5%	-40 °C to +85 °C	15A	45 °C	

^{*}Normal Operating Cell Temperature

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