



High Efficiency – Monocrystalline



Overview

- High efficiency solar cells with quality silicon material for high module conversion efficiency and long term output stability and reliability.
- Positive power output tolerance.
- 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 up to 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 linear performance warranty.
- Refer to warranty document for detailed warranty information.

Certifications

UL1703 and CE
UL Type 2 Fire Classification

Mechanical Specifications

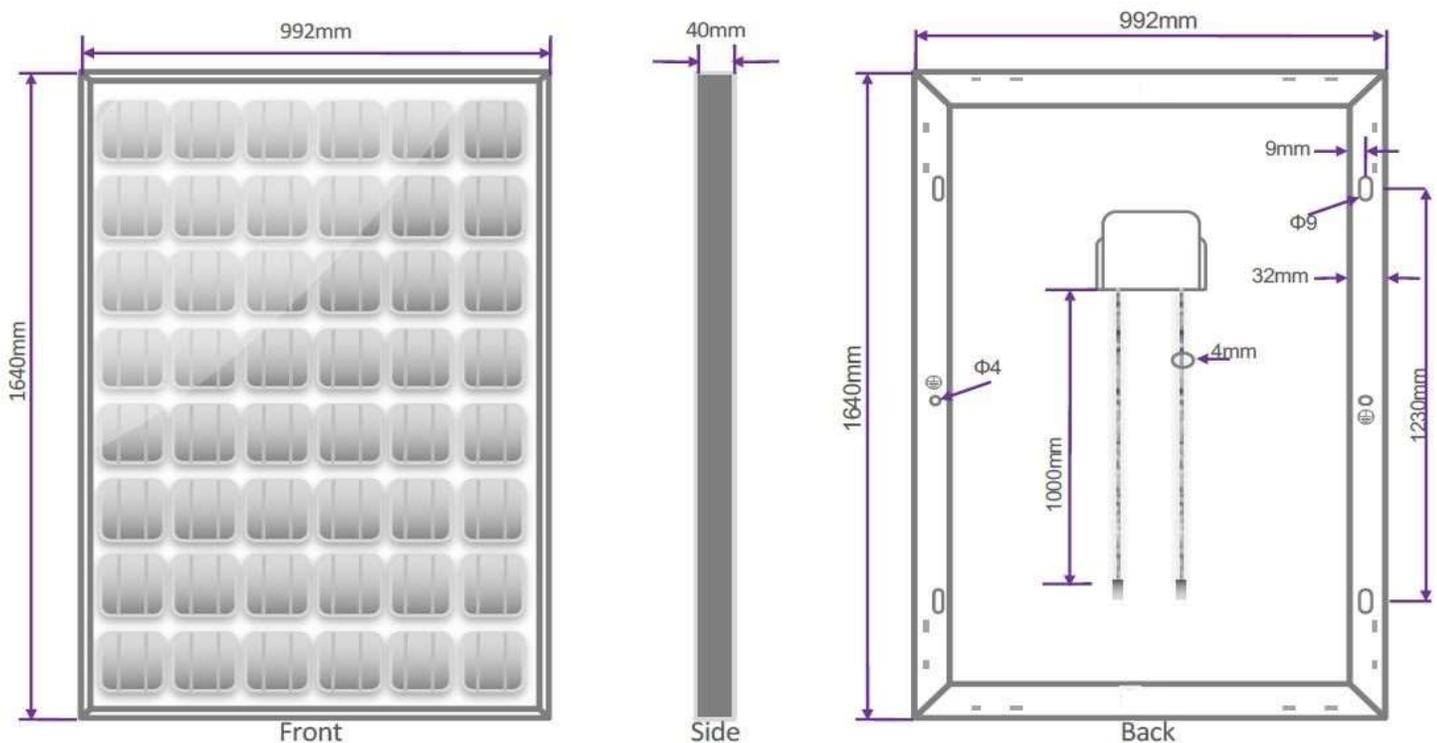
Characteristic	Details
Cell Size	156mm x 156mm (6.14" x 6.14")
Module Dimension (L x W x T)	1640mm x 992mm x 40mm (64.57" x 39.06" x 1.57")
No. of Cells	6 x 10 = 60
Weight	19.0 kg (41.9 lbs)
Cable Length	1000mm for positive (+) and negative (-)
Type of Connector	MC-4 Comparable
Junction Box	IP67 Rated
No. of Holes in Frame	4 installation holes, 16 drainage holes

Electrical Specifications

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

Model	GS-M60-300-Fab1-US
Max System Voltage (IEC/UL)	1000V
Maximum Power at STC	300 W (0%, +3%)
Listed PTC Power	275.1 W
Voltage at Maximum Power Point V_{mpp}	32.48 V
Current at Maximum Power Point I_{mpp}	9.24 A
Open Circuit Voltage V_{oc}	40.45 V
Short Circuit Current I_{sc}	9.91 A
Module Efficiency (%)	18.4 %
Temperature Coefficient of V_{oc}	-0.28% /°C
Temperature Coefficient of I_{sc}	+0.04% /°C
Temperature Coefficient of P_{max}	-0.38% /°C

*Standard Test Condition



Other Performance Data

Power Tolerance	Operating Temperature	Max Series Fuse Rating	NOCT*
0%, +3%	-40 °C to +85 °C	15A	46+/-2°C

*Normal Operating Cell Temperature

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Grape Solar reserves the rights to modify these specifications without notice.