



MODEL GS-49M-179 - PERC Monocrystalline Silicon



KEY FEATURES

- 179 watts
- 10.6 lbs
- Rigid
- $\frac{1}{4}$ " thick
- No glass
- Frameless
- No corrosion
- No PID
- No electrical grounding
- 95% light transmission,
low glare and UV
resistant top cover film

[®]
Giga Solar technology is the result of 5 years of development and testing. The module is not IEC/UL certified but it has been successfully tested to IEC standards and test reports are available upon request. US Patent # 9,590,123

Giga Solar® PV Module Data - PERC Monocrystalline Cells

ELECTRICAL DATA @ STC*		GS-49M		
Peak Power (W)	179			
Max Power Voltage (Vmpp) (V)	19.2			
Max Power Current (Impp) (A)	9.3			
Open Circuit Voltage (Voc) (V)	24.0			
Short Circuit Current (Isc) (A)	9.8			
Module Efficiency (%)	17.7			
*STC: 1000W/m ² , 25 °C Cell temperature, AMI 1.5. Peak Power +/-2% (Wp)				
MECHANICAL DATA (METRIC)				
Weight (kg)	4.9			
Width (mm)	660			
Length (mm)	1,530			
Thickness (mm)	6.4			
MECHANICAL DATA (IMPERIAL)				
Weight (lb)	10.7			
Width (in)	26.0			
Length (in)	60.2			
Thickness (in)	0.25			
GENERAL DATA				
Cell Type	PERC Monocrystalline Si			
Cell Size (mm)	156.75 x 156.75			
Cell Format	4 x 9 in series			
Module Frame Type	Frameless			
Module Color	Black			
Junction Boxes Design	3 Bypass diodes			
Junction Boxes Type	IP 67 Rated			
Junction Boxes Location (Specify)	Back			
Cable Connector	MC-4 Compatible			
Cable Length ** (mm) / (in)	1000 / 40			
** Other Cable lengths available upon request				
TEMPERATURE RATINGS				
Nominal Operating Cell Temperature (NOCT)	°C	47 ± 2		
Terperature Coefficient of Power Wp	%/°C	-0.396		
Temperature Coefficient of Voltage Vmpp	%/°C	-0.314		
Temperature Coefficient of Current Impp	%/°C	0.042		
MAXIMUM RATINGS				
Operational Temperature	°C	-40 to 85		
Maximum System Voltage	V (DC)	600		
Maximum Series Fuse Rating	A	15		
WARRANTY				
Manufacturing Warranty	Years	3		
Power Output (90%)	Years	5		
Power Output (80%)	Years	10		

Representative data and subject to change.

Giga Solar modules are not IEC61215 or UL certified.

Portola Valley, CA 94028, USA | Phone (Main Office) +1 650 619 9954 | Phone (Sales) +1 650 279 1345 | www.gigasolarpv.com

