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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Giga Solar FPC, Inc.  
GS-49M-179 - PERC  
GS-49M**

Also available on the web at  
[EnergyPal.com/giga-solar-fpc-inc-solar-panels/gs-49m](http://EnergyPal.com/giga-solar-fpc-inc-solar-panels/gs-49m)



## MODEL GS-49M-179 - PERC Monocrystalline Silicon



### KEY FEATURES

- 179 watts
- 10.6 lbs
- Rigid
- ¼" 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<sup>2</sup>, 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
Temperature 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.

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