

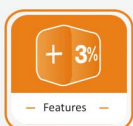


## GSM POLY SERIES

275-280W/60/5BB



**Maximum efficiency**  
17.21% conversion efficiency  
Up to 171W/m<sup>2</sup> power density



**Positive features**  
5 Bus Bar highlight efficiency  
0~+3% power tolerance  
96.5% low irradiance performance



**Sever quality control**  
PID free  
IP67 junction box adopted  
100% EL strict examination



**Outstanding environment resistance**  
2400Pa wind load  
5400Pa snow load  
97km/h of 35mm hail stones

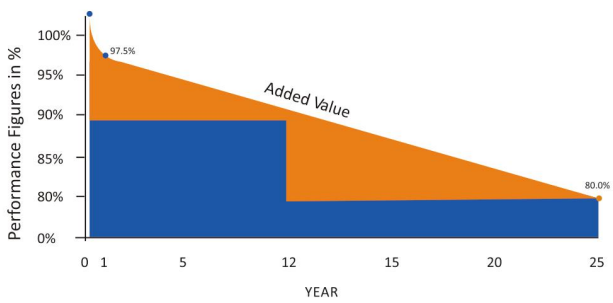


## Introduction

Great Solar, established in 2010, is a global leading professional PV module manufacturer, our products have been applied in residential, commercial and grounding solar photovoltaic power plant systems. Great Solar produces high-performance solar products, provides whole system solutions and technical support for best serving clients. We dedicate to satisfy clients' requirements in high quality solar panels for maximumly improving customers' revenue.

We firmly believe shat Customer Orientation is the basic for company development, with the principle of feedback within 4 hours, preliminary solution in 8 hours, Great Solar will be your optimal photovoltaic service provider.

- 12-year product warranty
- 25-year linear power output warranty



Model(GSM)	275(P)	280(P)
<b>Electrical Characteristics STC</b>		
Max-power Pm(W)	275	280
Max-power voltage Vmp(V)	31.20	31.70
Max-power current Imp(A)	8.82	8.83
Open-circuit voltage Voc(V)	38.20	38.80
Short-circuit current Isc(A)	9.35	9.39
Module efficiency	16.90%	17.21%
Power tolerance	0%-3%	
STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5		
<b>Electrical Characteristics NOCT</b>		
Max-power Pm(W)	206	210
Max-power voltage Vmp(V)	28.90	29.10
Max-power current Imp(A)	7.13	7.21
Open-circuit voltage Voc(V)	35.80	36.10
Short-circuit current Isc(A)	7.60	7.68
NOCT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1m/s		

## Mechanical Characteristics

Cell Type	Polycrystalline 156.75x156.75 mm
No. Of Cells	60(6x10) Solar Cells
Solar Cell Technology	5 Bus Bar
Glass	Low Iron, Tempered Glass, 3.2 mm
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Connector	MC4 Compatible
Cable	1x4.0mm <sup>2</sup>
Dimension	1640x992x 35 mm
Weight	18.0 kg

## Temperature and Coefficients

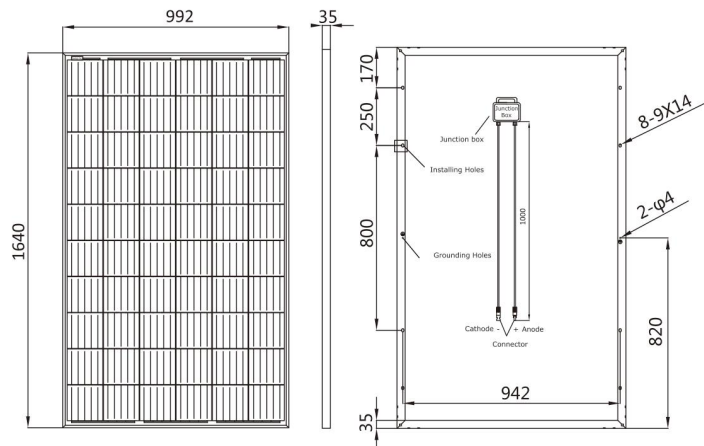
Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient Of Pmax(%/°C)	-0.39
Temperature Coefficient Of Voc(%/°C)	-0.34
Temperature Coefficient Of Isc(%/°C)	0.09

## Operating Conditions

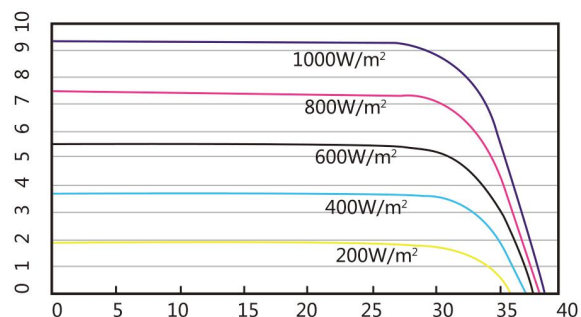
Operating Temperature	-40 ~+85°C
Storage Temperature	-40 ~+85°C
Maximum Series Fuse Rating	15A
Maximum System Voltage	DC1500V

## Packing

Pallet	30pcs/pallet
Loading Capacity	324pcs/20'GP; 896pcs/40'HQ



## Engineering Drawings



## I-V CURVES