



Maximum efficiency
17.21% conversion efficiency



Positive power tolerance
0~+3%



Application
Applied for IEC DC 1000V solar PV system

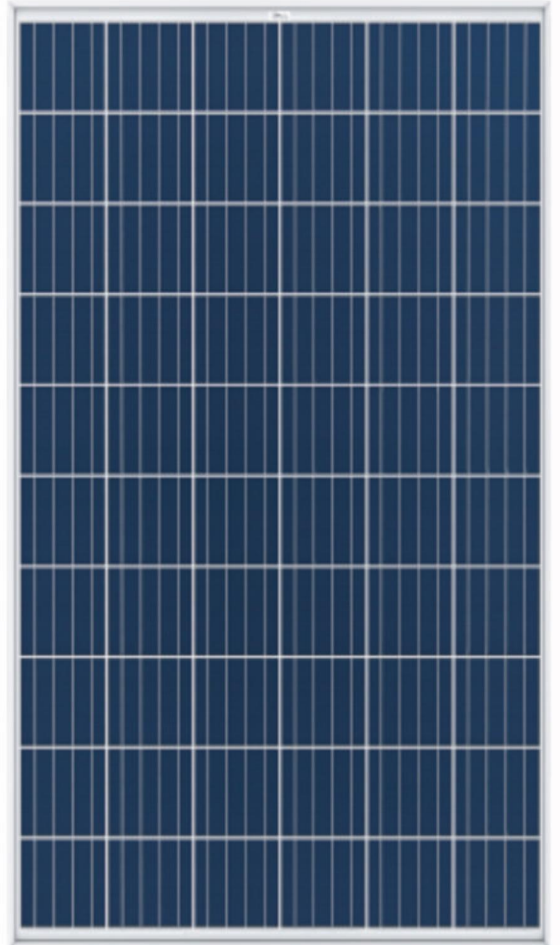


Severe environment resistance
Wind load 2400 Pascal
Snow load 5400 Pascal



Certification
IEC 61215(2005)
IEC 61730(2004)

GSM Poly Series 250-280W/60/4BB



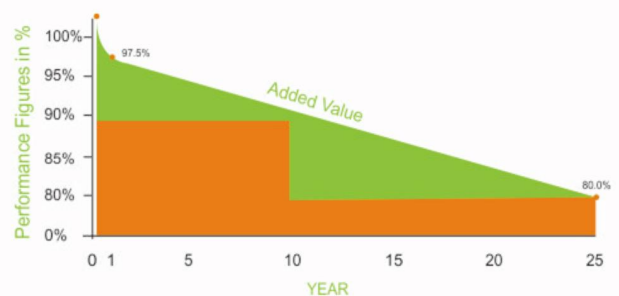
Introduction

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.



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



Model(GSM)	250(P)	255(P)	260(P)	265(P)	270(P)	275(P)	280(P)
Electrical Characteristics STC							
Max-power Pm(W)	250	255	260	265	270	275	280
Max-power voltage Vmp(V)	30.20	30.40	30.60	30.90	31.10	31.20	31.70
Max-power current Imp(A)	8.28	8.39	8.50	8.58	8.71	8.82	8.83
Open-circuit voltage Voc(V)	37.30	37.50	37.70	37.90	38.10	38.20	38.80
Short-circuit current Isc(A)	8.78	8.89	8.93	9.15	9.33	9.35	9.39
Module efficiency	15.37%	15.67%	15.98%	16.29%	16.60%	16.90%	17.21%
Power tolerance	0%-3%						
STC: Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5							
Electrical Characteristics NOCT							
Max-power Pm(W)	186	190	193	197	202	206	210
Max-power voltage Vmp(V)	28.00	28.20	28.40	28.60	28.80	28.90	29.10
Max-power current Imp(A)	6.65	6.74	6.81	6.89	7.02	7.13	7.21
Open-circuit voltage Voc(V)	35.20	35.30	35.40	35.50	35.60	35.80	36.10
Short-circuit current Isc(A)	7.07	7.17	7.27	7.35	7.45	7.60	7.68
NOCT: Irradiance 800W/m ² , Ambient Temperature 20°C, Wind Speed 1m/s							

Mechanical Characteristics

Cell Type	Polycrystalline 156x156mm
No.of Cells	60(6x10) Solar Cells
Solar Cell Technology	4 Bus Bar
Glass	Low Iron, Tempered Glass, 3.2mm
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Connector	MC4 Compatible
Cable	1x4.0mm ²
Dimension	1640x992x35 mm
Weight	18.0kg

Temperature and Coefficients

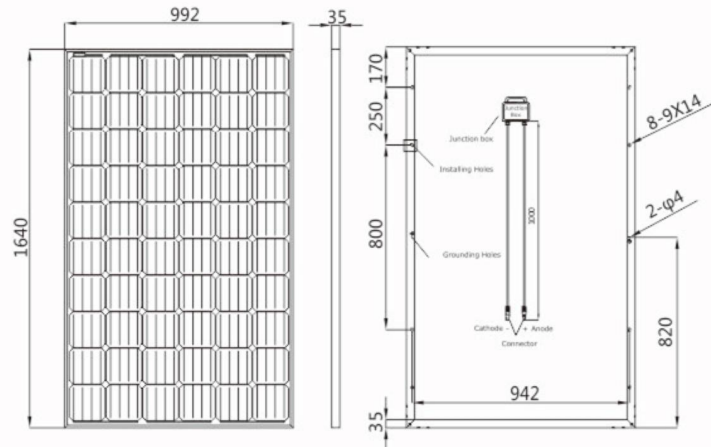
Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient Of Pmax(%/°C)	-0.37
Temperature Coefficient Of Voc(%/ °C)	-0.32
Temperature Coefficient Of Isc(%/ °C)	0.09

Operating Conditions

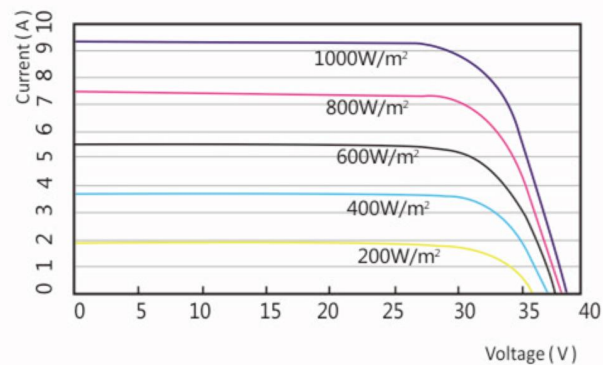
Operating Temperature	-40 ~+85°C
Storage Temperature	-40 ~+85°C
Maximum Series Fuse Rating	15A
Maximum System Voltage	DC1000V

Packing

Pallet	29pcs/pallet
Loading Capacity	330pcs/20'GP; 868pcs/40'HQ



Engineering Drawings



I-V CURVES