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Solar Panel Guide Specification Data Sheet

**Changzhou Great Solar Technology Co., Ltd.
GSM Poly 300-340W/72/4BB
315(P)**

Also available on the web at
EnergyPal.com/changzhou-great-solar-technology-co-ltd-solar-panels/315-p



Maximum efficiency
17.53% conversion efficiency



Positive power tolerance
0~+3%



Application
Applied for IEC DC 1000V solar PV system



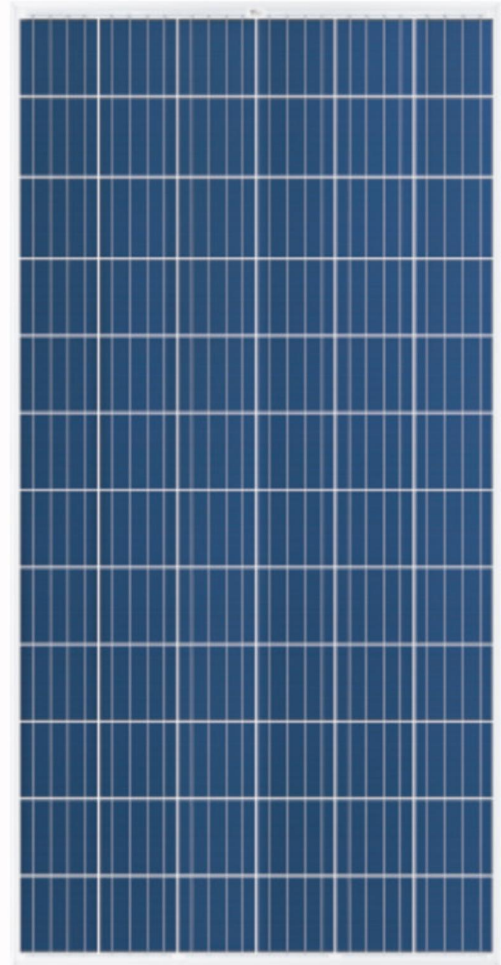
Severe environment resistance
Wind load 2400 Pascal
Snow load 5400 Pascal



Certification
IEC 61215(2005)
IEC 61730(2004)

GSM Poly Series

300-340W/72/4BB



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)	300(P)	305(P)	310(P)	315(P)	320(P)	325(P)	330(P)	335(P)	340(P)
Electrical Characteristics STC									
Max-power Pm(W)	300	305	310	315	320	325	330	335	340
Max-power voltage Vmp(V)	36.70	36.90	37.20	37.40	37.60	37.70	38.10	38.30	38.60
Max-power current Imp(A)	8.18	8.27	8.34	8.43	8.51	8.63	8.66	8.75	8.81
Open-circuit voltage Voc(V)	45.30	45.40	45.50	45.90	46.20	46.30	47.10	47.30	47.50
Short-circuit current Isc(A)	8.67	8.76	8.84	8.94	9.08	9.11	9.12	9.17	9.24
Module efficiency	15.47%	15.73%	15.98%	16.24%	16.50%	16.76%	17.02%	17.27%	17.53%
Power tolerance	0%-3%								
STC: Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5									
Electrical Characteristics NOCT									
Max-power Pm(W)	221	224	228	234	238	242	246	249	252
Max-power voltage Vmp(V)	33.70	33.80	34.20	34.50	34.70	34.80	35.00	35.20	35.40
Max-power current Imp(A)	6.56	6.63	6.67	6.79	6.86	6.96	7.03	7.08	7.12
Open-circuit voltage Voc(V)	42.0	42.20	42.30	42.40	42.50	42.70	42.90	43.10	43.30
Short-circuit current Isc(A)	6.95	7.03	7.07	7.20	7.27	7.38	7.45	7.50	7.54
NOCT: Irradiance 800W/m ² , Ambient Temperature 20°C, Wind Speed 1m/s									

Mechanical Characteristics

Cell Type	Polycrystalline 156x156mm
No.of Cells	72(6x12) 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	1955x992x40mm
Weight	25.0kg

Temperature and Coefficients

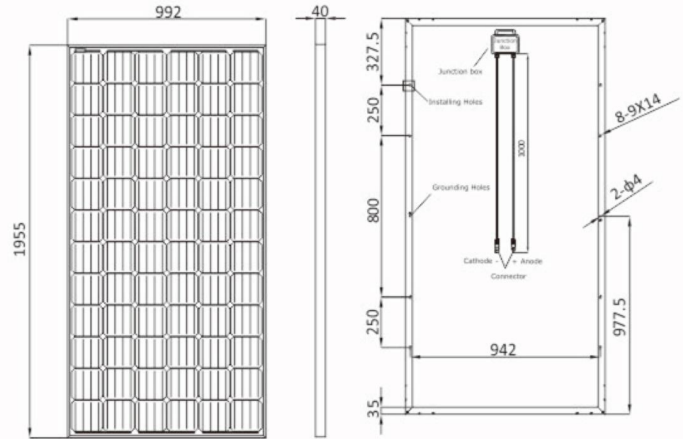
Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient Of Pmax(%/°C)	-0.39
Temperature Coefficient Of Voc(%/ °C)	-0.34
Temperature Coefficient Of Isc(%/ °C)	0.09

Operating Conditions

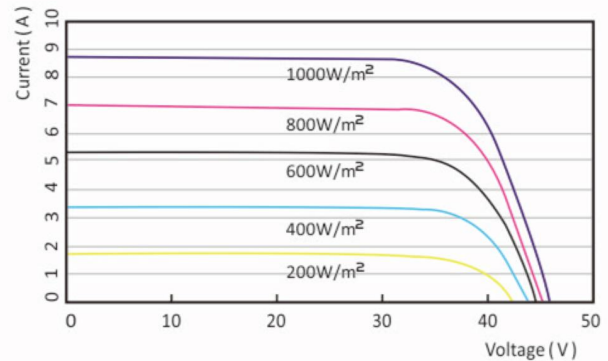
Operating Temperature	-40 ~+85°C
Storage Temperature	-40 ~+85°C
Maximum Series Fuse Rating	15A
Maximum System Voltage	DC1000V

Packing

Pallet	26pcs/pallet
Loading Capacity	230pcs/20'GP; 616pcs/40'HQ



Engineering Drawings



I-V CURVES