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# **EnergyPal**

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

**Changzhou Great Solar Technology Co., Ltd.  
GSM Mono 310-350W/72/4BB  
315(M)**

Also available on the web at  
[EnergyPal.com/changzhou-great-solar-technology-co-ltd-solar-panels/315-m](http://EnergyPal.com/changzhou-great-solar-technology-co-ltd-solar-panels/315-m)



**Maximum efficiency**  
18.08% 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 Mono Series 310-350W/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)	310(M)	315(M)	320(M)	325(M)	330(M)	335(M)	340(M)	345(M)	350(M)
<b>Electrical Characteristics STC</b>									
Max-power Pm(W)	310	315	320	325	330	335	340	345	350
Max-power voltage Vmp(V)	37.00	37.40	37.70	38.00	38.40	38.60	38.80	39.10	39.30
Max-power current Imp(A)	8.38	8.42	8.49	8.55	8.60	8.68	8.77	8.83	8.91
Open-circuit voltage Voc(V)	45.40	45.80	46.10	46.60	47.10	47.40	47.60	47.80	48.00
Short-circuit current Isc(A)	8.88	8.93	9.00	9.06	9.12	9.19	9.25	9.32	9.38
Module efficiency	15.98%	16.24%	16.50%	16.76%	17.02%	17.27%	17.53%	17.79%	18.05%
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)	227	230	234	238	241	245	249	252	256
Max-power voltage Vmp(V)	34.07	34.16	34.22	34.50	34.90	35.40	35.90	36.20	36.70
Max-power current Imp(A)	6.66	6.74	6.84	6.90	6.92	6.93	6.94	6.96	6.98
Open-circuit voltage Voc(V)	42.23	42.48	42.72	43.05	43.50	44.10	44.70	45.10	45.70
Short-circuit current Isc(A)	7.06	7.13	7.25	7.31	7.34	7.36	7.38	7.40	7.43
NOCT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1m/s									

## Mechanical Characteristics

Cell Type	Monocrystalline 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 <sup>2</sup>
Dimension	1955x992x40mm
Weight	25.0kg

## Temperature and Coefficients

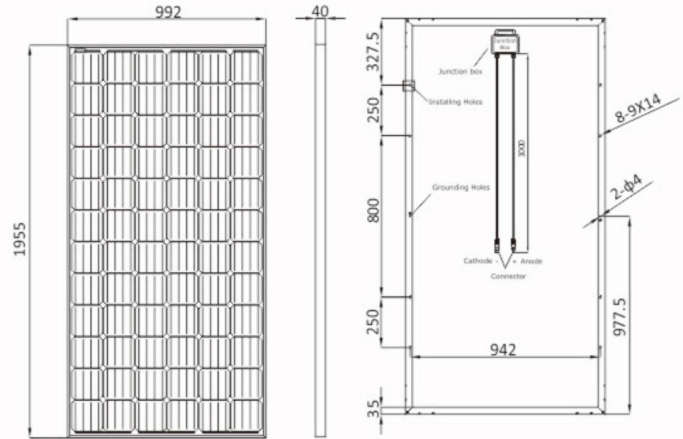
Nominal Operating Cell Temperature(NOCT)	45±2°C
Temperature Coefficient Of Pmax(%/°C)	-0.37
Temperature Coefficient Of Voc(%/ °C)	-0.32
Temperature Coefficient Of Isc(%/ °C)	0.09

## Operating Conditions

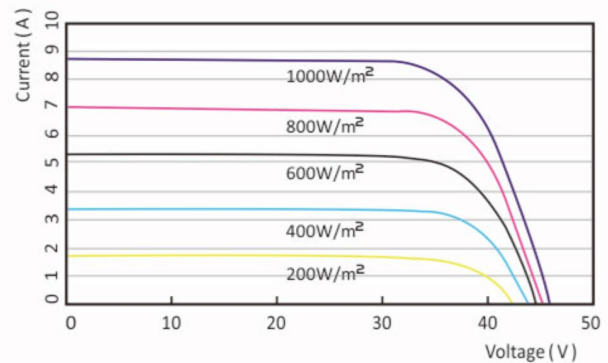
Operating Temperature	-40 ~+85°C
Storage Temperature	-40 ~+85°C
Maximum Series Fuse Rating	15A
Maximum System Voltage	DC1000V

## Packing

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



## Engineering Drawings



## I-V CURVES