



Mono GSM200-230WM12-039

Positive features



Multi Bus Bar highlight efficiency
0~+5W power tolerance



Excellent temperature and power output

1.6°C lower than the conventional module
More power output

Sever quality control



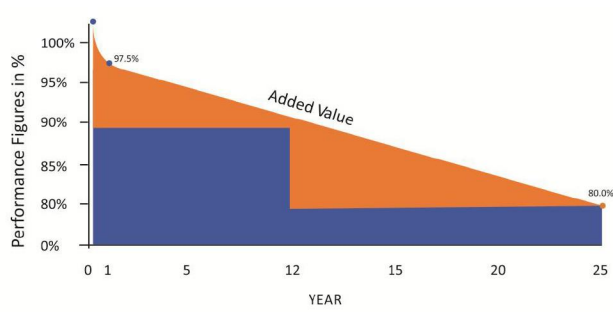
PID free
100% EL strict examination



Outstanding environment resistance

2400Pa wind load
5400Pa snow load

Superior Warranty

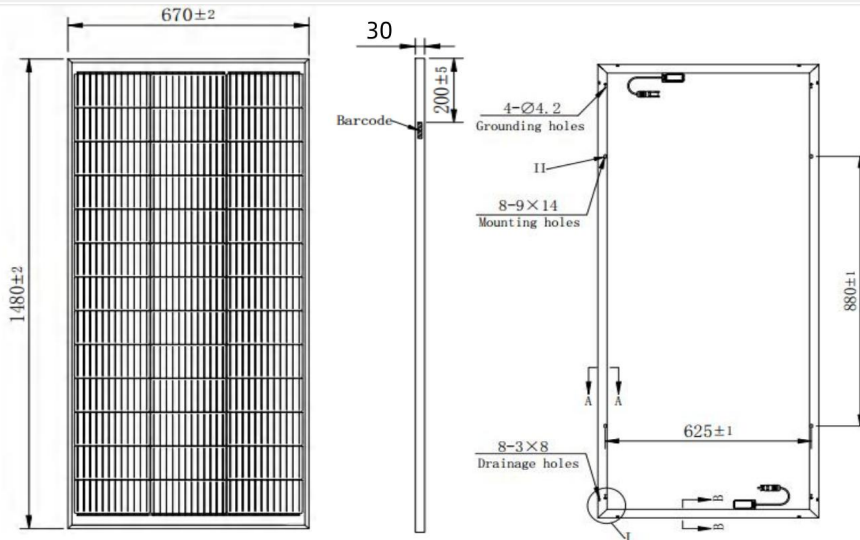


Introduction

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.



MECHANICAL DIAGRAMS



SPECIFICATIONS

Cell	Monocrystalline
NO. of Cells	39(3x13) Solar Cells
Frame	Anodized Aluminum Alloy
Glass	Low Iron, Tempered Glass, 3.2mm
Junction Box	IP68 Rated
Cable	4.0mm ² , 300mm or customized
Dimension	1480x670x30mm
Weight	11kg

ELECTRIC CHARACTERISTICS

Model	GSM200M12-039	GSM210M12-039	GSM220M12-039	GSM230M12-039
Max-power Pm(W)	200	210	220	230
Open-circuit voltage Voc(V)	27.09	28.8	29.86	30.82
Open-circuit current Isc(A)	9.18	9.28	9.38	9.48
Max-power voltage Vmp(V)	22.94	23.82	24.7	25.56
Max-power current Imp(A)	8.72	8.82	8.91	9

STC: Irradiance 1000W/m², Cell Temperature 25°C, AirMass1.5

TEMPERATURE AND COEFFICIENTS

Nominal Operating Cell Temperature (NOCT)	45 \pm 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	DC1500V

