

Mono

GSM460-480M8-144BG

Bifacial HJT Mono Half Cell Series

Maximum efficiency



22.1% conversion efficiency
Better shading tolerance

Positive features



Multi Bar highlight efficiency
0~+5W power tolerance

Sever quality control



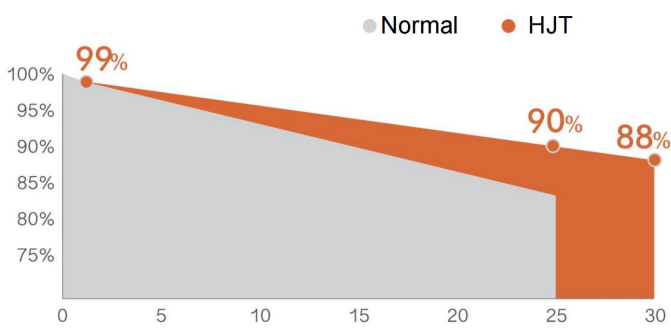
100% EL strict examination
PID resistant and free of snail trails

Outstanding environment resistance



3600Pa wind load
5400Pa snow load

Superior Warranty

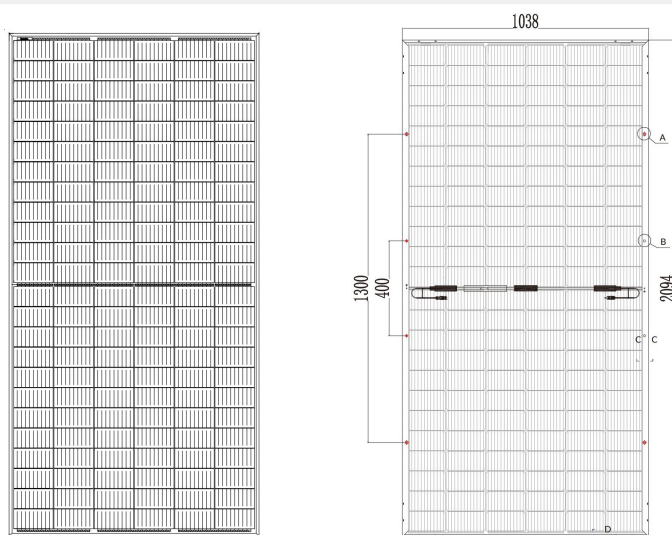


Introduction

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 Size	166*83 mm
No. of Cells	144(6x24) Solar Cells
Frame	Anodized Aluminum Alloy
Glass	(F)2.0mm Anti-reflective surface Solar Glass,(B) 2.0mm Solar Glass
Junction Box	IP67/IP68 Rated
Connector	MC4 Compatible
Dimension	2094x1038x30mm
Weight	27.5kg
Packing	180/20GP,792/40HQ

ELECTRIC CHARACTERISTICS

Model	GSM460M8-144BG		GSM465M8-144BG		GSM470M8-144BG		GSM475M8-144BG		GSM480M8-144BG	
	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC	STC	BSTC
Max-power Pm(W)	460	510	465	515	470	520	475	525	480	530
Open-circuit voltage Voc(V)	53.22	54.33	53.35	54.73	53.48	55.33	53.61	55.93	53.74	56.53
Open-circuit current Isc(A)	10.58	11.53	10.64	11.57	10.70	11.61	10.76	11.65	10.82	11.69
Max-power voltage Vmp(V)	45.24	46.20	45.44	46.40	45.66	46.60	45.86	46.80	46.08	47.00
Max-power current Imp(A)	10.18	11.14	10.24	11.19	10.30	11.24	10.36	11.29	10.43	11.34

STC/BSTC: Front Side Irradiance 1000W/m², Back Side Reflection Irradiance 135W/m², Cell Temperature 25°C, Air Mass 1.5

TEMPERATURE AND COEFFICIENTS

Nominal Module Operating Temperature	44±2°C
Temperature Coefficient Of Pmax (%/°C)	-0.26
Temperature Coefficient Of Voc (%/°C)	-0.24
Temperature Coefficient Of Isc (%/°C)	0.04

OPERATING CONDITIONS

Operating Temperature	-40~ + 85°C
Storage Temperature	-40~ + 85°C
Maximum Series Fuse Rating	20A
Maximum System Voltage	DC1500V



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