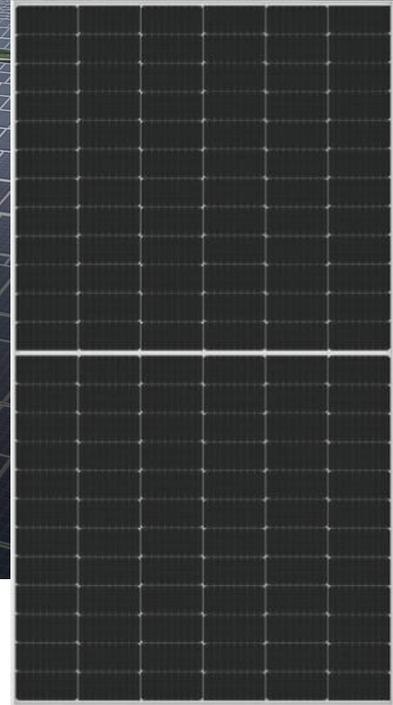


Mono

GSM565-590WM10-144BG

Bifacial N-TYPE Mono Half Cell Series



Maximum efficiency

22.84% conversion efficiency
Better shading tolerance



Positive features

Multi Bar highlight efficiency
0~+5W power tolerance



Sever quality control

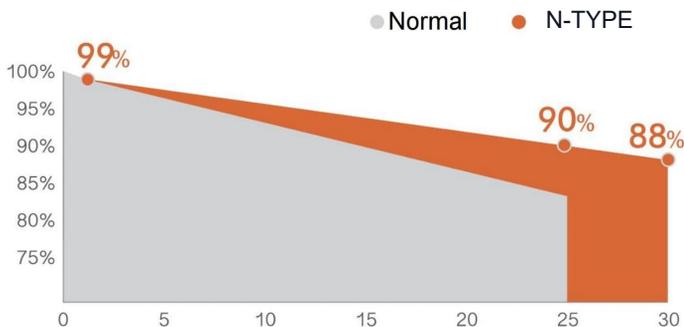
100% EL strict examination
PID resistant and free of snail trails



Outstanding environment resistance

3600Pa wind load
5400Pa snow load

Superior Warranty

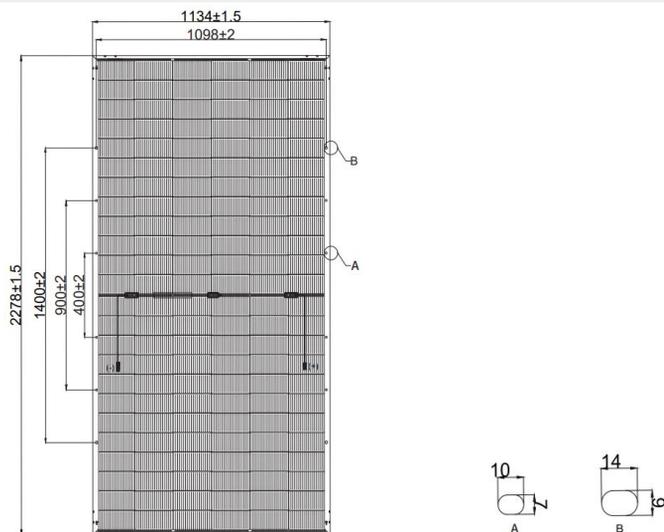


Introduction

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	182*91 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	2278x1134x30mm
Weight	31.5 kg
Packing	36/CARTON,720/40HQ

ELECTRIC CHARACTERISTICS

Model	GSM565M10-144BG		GSM570M10-144BG		GSM575M10-144BG		GSM580M10-144BG		GSM585M10-144BG		GSM590M10-144BG	
	STC	BSTC										
Max-power Pm(W)	565	621	570	627	575	632	580	638	585	643	590	649
Open-circuit voltage Voc(V)	51.08	51.08	51.17	51.17	51.3	51.3	51.42	51.42	51.51	51.51	51.62	51.62
Open-circuit current Isc(A)	13.97	15.31	14.06	15.42	14.14	15.52	14.21	15.62	14.32	15.69	14.38	15.82
Max-power voltage Vmp(V)	42.92	42.92	43.02	43.02	43.11	43.11	43.21	43.21	43.37	43.37	43.42	43.42
Max-power current Imp(A)	13.17	14.47	13.25	14.58	13.34	14.67	13.43	14.77	13.49	14.83	13.59	14.95

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

TEMPERATURE AND COEFFICIENTS

OPERATING CONDITIONS

Nominal Module Operating Temperature	44±2°C	Operating Temperature	-40~ + 85°C
Temperature Coefficient Of Pmax (%/°C)	-0.28	Storage Temperature	-40~ + 85°C
Temperature Coefficient Of Voc (%/°C)	-0.24	Maximum Series Fuse Rating	30A
Temperature Coefficient Of Isc (%/°C)	0.04	Maximum System Voltage	DC1500V



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