



# GSM610-630M12-132BG

## Bifacial N-TYPE Mono Half Cell Series

### Maximum efficiency



23.3% conversion efficiency  
Better shading tolerance

### Positive features



Multi Bar highlight efficiency  
0~+5W power tolerance

### Sever quality control



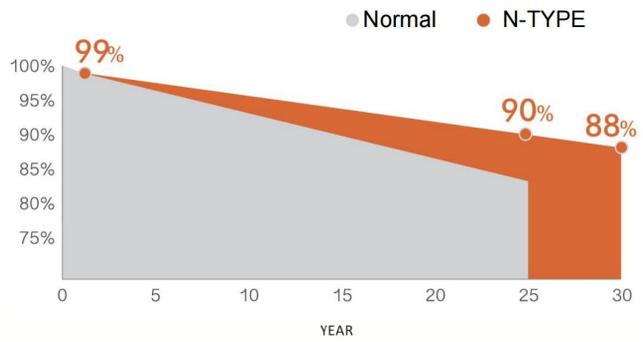
100% EL strict examination  
PID resistant and free of snail trails

### Outstanding environment resistance



3600Pa wind load  
5400Pa snow load

### Superior Warranty

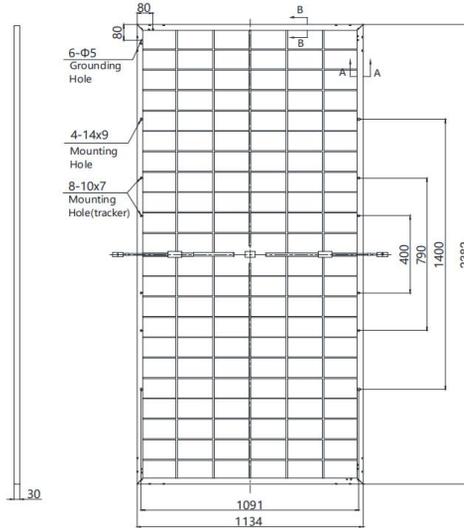
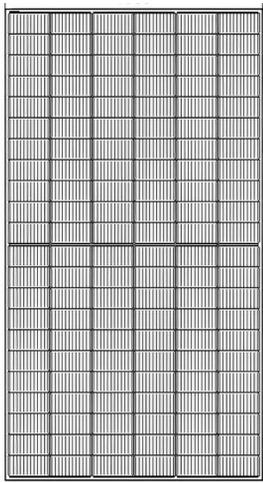


### Introduction

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	182*105 mm
NO. of Cells	132(6x22) Solar Cells
Frame	Anodized Aluminum Alloy
Glass	(F)2.0mm Anti-reflective surface Solar Glass,(B) 2.0mm Solar Glass
Junction Box	IP68 Rated
Connector	MC4 Compatible
Dimension	2382x1134x30mm
Weight	32.8 kg
Packing	36/carton,720/40HQ

## ELECTRIC CHARACTERISTICS

Model	GSM610M12-132BG		GSM615M12-132BG		GSM620M12-132BG		GSM625M12-132BG		GSM630M12-132BG	
	STC	BSTC								
Max-power Pm(W)	610	641	615	646	620	651	625	656	630	662
Open-circuit voltage Voc(V)	48.00	48.00	48.20	48.20	48.40	48.40	48.60	48.60	48.80	48.80
Open-circuit current Isc(A)	15.97	16.77	16.02	16.82	16.08	16.88	16.14	16.95	16.20	17.01
Max-power voltage Vmp(V)	40.80	40.80	41.00	41.00	41.20	41.20	41.40	41.40	41.60	41.60
Max-power current Imp(A)	14.96	15.71	15.01	15.76	15.06	15.81	15.11	15.87	15.16	15.92

STC/BSTC: Front Side Irradiance 1000W/m<sup>2</sup>, Back Side Reflection Irradiance 135W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

## TEMPERATURE AND COEFFICIENTS

## OPERATING CONDITIONS

Nominal Module Operating Temperature	41±3°C	Operating Temperature	-40~ + 85°C
Temperature Coefficient Of Pmax (%/°C)	-0.29	Storage Temperature	-40~ + 85°C
Temperature Coefficient Of Voc (%/°C)	-0.25	Maximum Series Fuse Rating	30A
Temperature Coefficient Of Isc (%/°C)	0.045	Maximum System Voltage	DC1500V



Add: 56-1 Hundsun Science & Technology Park, Tianning District, Changzhou, Jiangsu, China

Email: info@great-solar.com

Web: www.great-solar.com

Tel: 0086-519-89962158

Fax: 0086-519-89962159