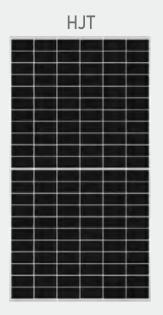


# 690~710 Watt

White Grid Glass Glass



MG690-710G12-132D4

## **Key Features**



## **High Efficiency**

Leading module efficiency in industry, up to 23%



#### Hetero Junction Technology Half Cell

Series-then-parallel cell connection design, more reliable soldering technology



#### **High Reliability**

Two times EL/Critical Visual inspection



## **Excellent Anti-PID Performance**

2 times of industry standarid Anti-PID test



#### **Excellent Rear Side Power Generation**

Bifaciality is up to 90%, up to 25% more energy yield than conventionalmodules



#### **Superior Low Irradiance Performance**

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days

## **Product and Quality Certifications**

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

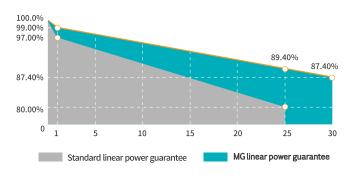
ISO 45001: Occupational Health and Safety Management System

IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test











## MG690-710G12-132D4

210mm White Grid Glass Glass

## Electrical Characteristics (STC\*)

Maximum Power	(Pmax)	680W	685W	690W	695W	700W	705W	710W
Module Efficiency	(%)	21.89%	22.05%	22.21%	22.37%	22.53%	22.70%	22.86%
Optimum Operating Vol	ltage (Vmp)	41.49V	41.65V	41.80V	41.95V	42.10V	42.25V	42.39V
Optimum Operating Cu	rrent (Imp)	16.39A	16.45A	16.51A	16.57A	16.63A	16.69A	16.75A
Open Circuit Voltage	(Voc)	49.50V	49.66V	49.82V	49.98V	50.13V	50.29V	50.44V
Short Circuit Current	(Isc)	17.19A	17.25A	17.31A	17.37A	17.43A	17.49A	17.55A
Operating Module Temperature			-40 to +85 °C					
Maximum System Voltage				DC1500V (IEC)				
Maximum Series Fuse 30A								
Power Tolerance 0~+5W								
Bifaciality	Bifaciality 85%±5%							

<sup>\*</sup>STC: Irradiance 1000 W/m², cell temperature 25 °C, AM=1.5. Tolerance of Pmax is within +/- 3%.

#### Bstc\*\*

Maximum Power	(Pmax)	750W	755W	760W	765W	770W	775W	780W
Optimum Operating Voltage	(Vmp)	41.49V	41.65V	41.80V	41.95V	42.10V	42.25V	42.39V
Optimum Operating Current	(Imp)	18.08A	18.13A	18.19A	18.24A	18.29A	18.35A	18.41A
Open Circuit Voltage	(Voc)	49.50V	49.66V	49.82V	49.98V	50.13V	50.29V	50.44V
Short Circuit Current	(Isc)	18.96A	19.01A	19.07A	19.12A	19.17A	19.22A	19.28A

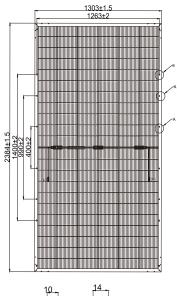
<sup>\*\*</sup>BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25 °C

## \* Mechanical Specifications

•		
HJT Mono 210×105mm		
132 (6×22)		
2384×1303×35 mm		
38.7 kg		
IP68		
4mm <sup>2</sup> , 300mm in length, length can be customized / UV resista		
MC4 original / MC4 compatible		
Anodised aluminum alloy		
EPE		
5400 Pa		
2400 Pa		
(F) 2.0mm anti-reflective solar glass   (B) 2.0mm solar glass		

## **\* Shipping Configurations**

Container Size		40'
Pallets Per Container		18
Modules Per Pallet	(pcs)	31
Modules Per Container	(pcs)	558





## \* Temperature Characteristics

Nominal Operating Cell Temp. (NOCT)	44 °C ± 2 °C
Temperature Coefficient of Pmax	-0.26%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	0.04%/°C

## Safety & Warranty

Safety Class	Class II
Product Warranty	15 yrs Workmanship
Performance Warranty	30 yrs Linear Warranty*

<sup>\*</sup> Less than 1% attenuation in the 1st year, the annual attenuation from the 2nd year is no more than 0.375%, and the power is no less than 88% until the 30th year.

