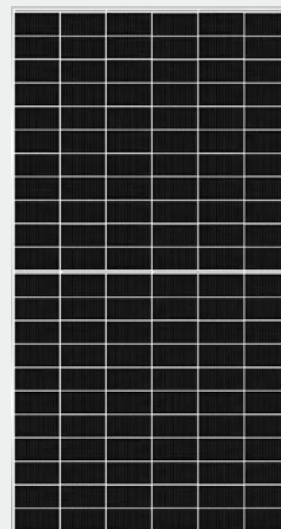


690~710 Watt

White Grid Glass Glass

HJT



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 standard Anti-PID test



Excellent Rear Side Power Generation

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



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

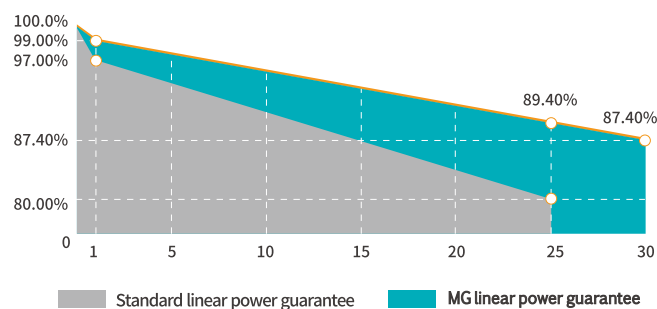
ISO 9001: Quality Management System

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



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 Voltage (Vmp)	41.49V	41.65V	41.80V	41.95V	42.10V	42.25V	42.39V
Optimum Operating Current (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	85% ± 5%						

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

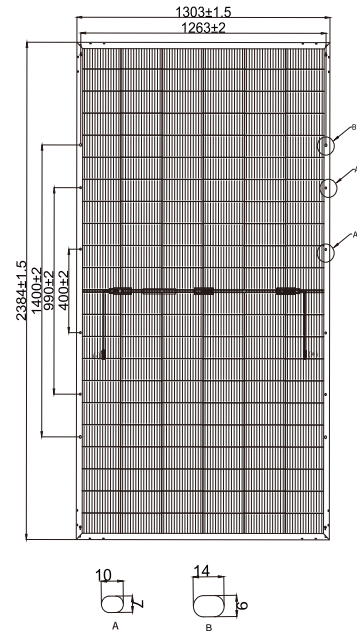
Bstc**

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

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

Mechanical Specifications

Cell Type	HJT Mono 210 × 105mm
Cell Connection	132 (6 × 22)
Module Dimension	2384 × 1303 × 35 mm
Weight	38.7 kg
Junction Box	IP68
Output Cable	4mm ² , 300mm in length, length can be customized / UV resistant
Connectors Type	MC4 original / MC4 compatible
Frame	Anodised aluminum alloy
Encapsulant	EPE
Front Load	5400 Pa
Rear Load	2400 Pa
Glass Thickness	(F) 2.0mm anti-reflective solar glass (B) 2.0mm solar glass



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*

* 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.