

G12-68P

N-type Bifacial Double Glass Module

HSM-GKA-NM705~730

730W

Maximum Power Output

23.2%

Maximum Efficiency

High Energy Yield

- High-density cell package, increasing 2% cells
- Lower temperature coefficient (Pmax): -0.29%/°C
- Up to 80% power bifaciality

Industry-leading G12 Wafer

- <1% degradation in the first year
- Smaller wafer chamfer, larger light receiving area
- Wafer: 210, Thickness: ≤130μm

Superior Customer Value

- Integrated technology: TOPCon + Shingling
- High module efficiency, Lower LCOE&BOS
- More artistic beauty with no-gap design

Long-term Reliability

- 1/3 cell technology, lower current loss and hot spot risk
- Harsh environment resistance
- Damage-free laser cutting, lower micro-crack risk
- Mechanical load: Front 5400 Pa, Back 2400 Pa

Comprehensive Products and System Certificates

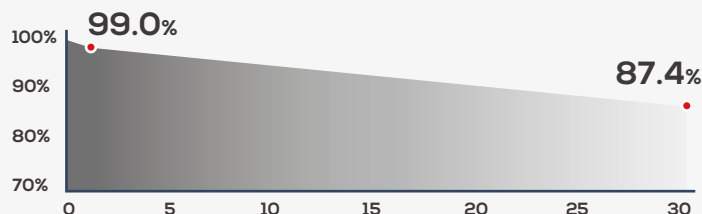


IEC 61215 / IEC 61730 ISO 9001:2015 ISO 45001:2018 ISO 14001:2015

Linear Performance Warranty

15 Years
Product Warranty

30 Years Linear
Performance Warranty



G12-68P N-type Bifacial Double Glass Module

HSM-GKA-NM705~730

730W

Maximum Power

23.2%

Maximum Efficiency

0~+5W

Power Tolerance

Electrical Parameters (STC*)

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM1.5, Measuring Tolerance: ±2%

Maximum Power	P _{max} (W)	705	710	715	720	725	730
Open Circuit Voltage	V _{oc} (V)	49.10	49.30	49.40	49.50	49.60	49.70
Short Circuit Current	I _{sc} (A)	17.92	17.96	17.97	17.98	17.99	18.00
Maximum Power Voltage	V _{mp} (V)	41.60	41.80	42.00	42.20	42.40	42.60
Maximum Power Current	I _{mp} (A)	16.96	17.00	17.03	17.07	17.11	17.14
Module Efficiency	(%)	22.4	22.6	22.7	22.9	23.1	23.2

Electrical Characteristics with 10% Bifacial Gain*

* The additional gain from the back side depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

Maximum Power	P _{max} (W)	776	781	787	792	798	803
Open Circuit Voltage	V _{oc} (V)	49.10	49.30	49.40	49.50	49.60	49.70
Short Circuit Current	I _{sc} (A)	19.71	19.76	19.77	19.78	19.79	19.80
Maximum Power Voltage	V _{mp} (V)	41.60	41.80	42.00	42.20	42.40	42.60
Maximum Power Current	I _{mp} (A)	18.66	18.70	18.73	18.78	18.82	18.85

Mechanical Data

* Please refer to installation manual for details

No. of Cells	204pcs (6×34)
Dimension	2413×1303×33mm
Weight	38.4kg
Front Glass	2.0mm High Transmission, Heat Strengthened Glass
Back Glass	2.0mm Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
J-Box	IP68
Cables	4.0mm ² , +350mm, -280mm/±1400mm (can be customized)
Diodes	3
Maximum Static Load	Front: 5400Pa/Back: 2400Pa*

Temperature Coefficient

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Nominal Module Operating Temperature*	43±2°C	Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C	Temperature Coefficient of P _{max}	-0.29%/°C

Operating Parameters

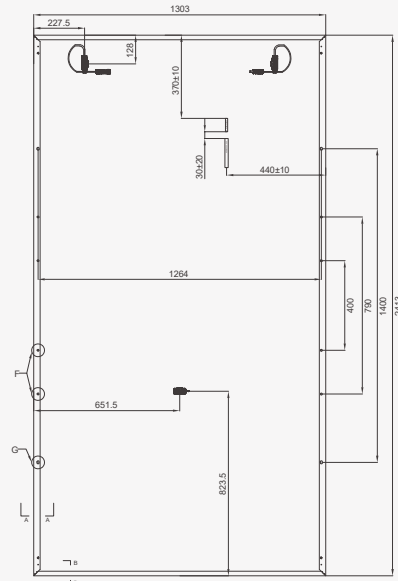
Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Bifaciality	80±5%

Packaging Configuration

Modules per Pallet	33pcs
Modules per 40'HQ Container	594pcs
Pallets per 40'HQ Container	18plt

Engineering Drawing

[Unit: mm]



Back



F-Installation Hole



G-Installation Hole



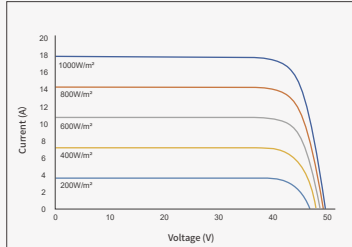
A-A



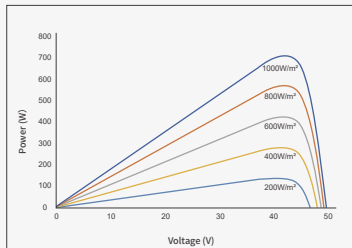
B-B

Curve Graph

I-V Curves (715W)



P-V Curves (715W)



TCL

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