

## G12-66P

### N-type Bifacial Double Glass Module

HSM-ND66-GK700~735



## 735W

Maximum Power Output

## 23.7%

Maximum Efficiency



#### Superior Customer Value

- 210mm wafer generates 720W+ Power output
- Low-voltage design optimizes BOS cost
- Optimized for diverse installation needs



#### High Energy Yield

- Consistent high yield in varying conditions
- Enhanced thermal resistance and bifacial power generation



#### Long-term Reliability

- Advanced weather-resistant encapsulation
- Aluminium alloy frame and heat strengthened glass
- Resistant to harsh environmental conditions

#### Comprehensive Products and System Certificates



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

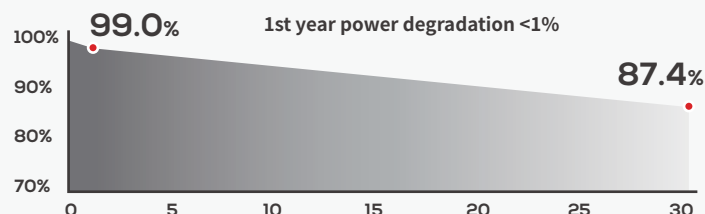
#### Linear Performance Warranty



15 Years  
Product Warranty



30 Years Linear  
Performance Warranty



## Electrical Parameters (STC\* &amp; BNPI\*)

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5, Measuring Tolerance: ±2%\* BNPI: Back Irradiance 135W/m<sup>2</sup>, Cell temperature 25°C, Atmospheric quality AM 1.5G, Wind speed 1m/s

| Testing Condition     |                      | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  | STC   | BNPI  |
|-----------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power         | P <sub>max</sub> (W) | 700   | 773   | 705   | 779   | 710   | 784   | 715   | 790   | 720   | 795   | 725   | 801   | 730   | 806   | 735   | 812   |
| Open Circuit Voltage  | V <sub>oc</sub> (V)  | 48.26 | 48.41 | 48.48 | 48.64 | 48.70 | 48.85 | 48.92 | 49.08 | 49.14 | 49.29 | 49.36 | 49.52 | 49.58 | 49.73 | 49.80 | 49.96 |
| Short Circuit Current | I <sub>sc</sub> (A)  | 18.40 | 20.31 | 18.44 | 20.36 | 18.48 | 20.40 | 18.52 | 20.45 | 18.56 | 20.49 | 18.60 | 20.54 | 18.64 | 20.58 | 18.68 | 20.63 |
| Maximum Power Voltage | V <sub>mp</sub> (V)  | 40.31 | 40.31 | 40.50 | 40.51 | 40.69 | 40.69 | 40.89 | 40.92 | 41.08 | 41.09 | 41.27 | 41.29 | 41.46 | 41.47 | 41.65 | 41.70 |
| Maximum Power Current | I <sub>mp</sub> (A)  | 17.37 | 19.18 | 17.41 | 19.23 | 17.45 | 19.27 | 17.49 | 19.31 | 17.53 | 19.35 | 17.57 | 19.40 | 17.61 | 19.44 | 17.65 | 19.48 |
| Module Efficiency     | (%)                  | 22.5  |       | 22.7  |       | 22.9  |       | 23.0  |       | 23.2  |       | 23.3  |       | 23.5  |       | 23.7  |       |

## Electrical Characteristics with Different Bifacial Gain\*

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

| Bifacial Gain         |                      | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   | 5%    | 10%   |
|-----------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power         | P <sub>max</sub> (W) | 735   | 770   | 740   | 776   | 746   | 781   | 751   | 787   | 756   | 792   | 761   | 798   | 767   | 803   | 772   | 809   |
| Open Circuit Voltage  | V <sub>oc</sub> (V)  | 48.26 | 48.26 | 48.48 | 48.48 | 48.70 | 48.70 | 48.92 | 48.92 | 49.14 | 49.14 | 49.36 | 49.36 | 49.58 | 49.58 | 49.80 | 49.80 |
| Short Circuit Current | I <sub>sc</sub> (A)  | 19.32 | 20.24 | 19.36 | 20.28 | 19.40 | 20.33 | 19.45 | 20.37 | 19.49 | 20.42 | 19.53 | 20.46 | 19.57 | 20.50 | 19.61 | 20.55 |
| Maximum Power Voltage | V <sub>mp</sub> (V)  | 40.31 | 40.31 | 40.50 | 40.50 | 40.69 | 40.69 | 40.89 | 40.89 | 41.08 | 41.08 | 41.27 | 41.27 | 41.46 | 41.46 | 41.65 | 41.65 |
| Maximum Power Current | I <sub>mp</sub> (A)  | 18.24 | 19.11 | 18.28 | 19.15 | 18.32 | 19.20 | 18.36 | 19.24 | 18.41 | 19.28 | 18.45 | 19.33 | 18.49 | 19.37 | 18.53 | 19.42 |

## Temperature Coefficient

Nominal Module Operating Temperature\* 43±2°C

Temperature Coefficient of I<sub>sc</sub> +0.045%/°CTemperature Coefficient of V<sub>oc</sub> -0.24%/°CTemperature Coefficient of P<sub>max</sub> -0.28%/°C

## Operating Parameters

Operating Temperature -40~+85°C

Maximum System Voltage 1500V DC

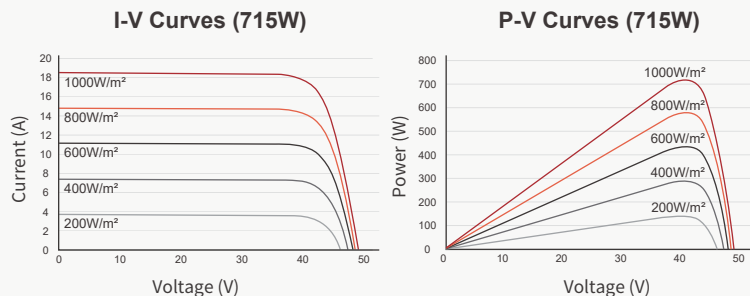
Maximum Series Fuse Rating 35A

Power Bifaciality 80±5%

Safety Protection Class II

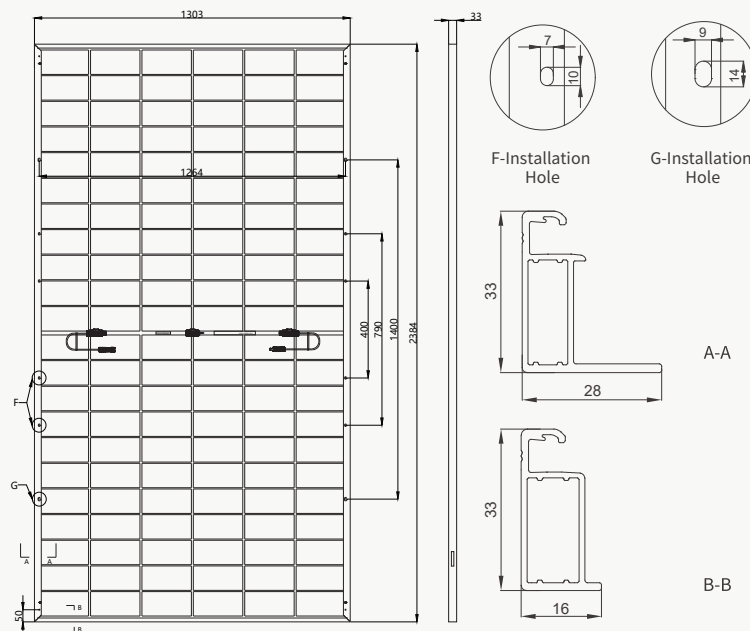
Fire Rating Class A

## Curve Graph



## Engineering Drawing

[Unit: mm]



## Mechanical Data

\* Please refer to installation manual for details

|                     |                                                         |
|---------------------|---------------------------------------------------------|
| No. of Cells        | 132pcs (6×22)                                           |
| Dimension           | 2384×1303×33 mm                                         |
| Weight              | 38.2kg ±3%                                              |
| Front Glass         | 2.0mm, Heat Strengthened, AR coating Glass              |
| Back Glass          | 2.0mm, Heat Strengthened Glass                          |
| Frame               | Anodized Aluminium Alloy                                |
| J-Box / Diodes      | IP68 / three diodes                                     |
| Cables              | 4.0mm <sup>2</sup> , +400mm, -200mm (can be customized) |
| Maximum Static Load | Front: 5400Pa / Back: 2400Pa*                           |

## Packaging Configuration

|                             |        |
|-----------------------------|--------|
| Modules per Pallet          | 33pcs  |
| Modules per 40'HQ Container | 594pcs |
| Flat Car-13.5m              | 660pcs |
| Flat Car-17.5m              | 759pcs |