



## Solmax

### Double Glass N-type -MONO-144



#### N-Technology

N-type modules using Tunnel Oxide Passivating Contacts (TOPCon) technology have lower LID/LeTID attenuation and excellent low light performance.



#### Bifacial power

Bifacial power generation gain increases with backside exposure to light, significantly reducing LCOE.



#### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



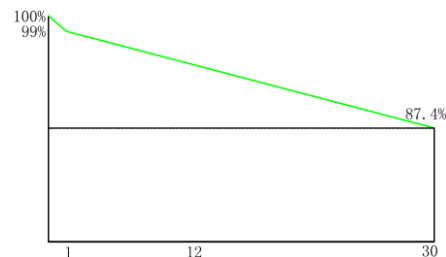
#### Load capacity

The complete assembly is certified to a maximum test static load of 5400Pa on the front and 2400Pa on the back.



#### PID Resistance

Through the cell production technology optimization and material control to minimize the decline caused by the PID phenomenon



12-year  
material  
workman  
ship  
warranty

30-year  
linear  
warranty

1% First  
year  
power  
degradation

0.4%  
Linear  
power  
decay

· IEC61215:2021 / IEC61730:2023

· ISO9001:2015: Quality Management System

· ISO14001:2015: Environmental Management System

· ISO45001:2018: Occupational Health and Safety

Management System



## GEO-NM10-72D

### MECHANICAL CHARACTERISTICS

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Solar Cell              | N-type monocrystalline                                                    |
| Number of cells         | 144 (72×2)                                                                |
| Dimension               | 2278×1134×30 mm                                                           |
| Weight                  | 32.0 kg                                                                   |
| Front Glass             | 2.0 mm, High-transmittance coated glass                                   |
| Back Glass              | 2.0 mm, Half-tempered glass                                               |
| Frame                   | Anodized aluminum alloy                                                   |
| Junction Box            | IP68 Rated                                                                |
| Safety Protection Level | Class II                                                                  |
| IEC Fire Performance    | Class A                                                                   |
| Connector               | MC4/Others                                                                |
| Cable                   | 4.0mm <sup>2</sup> solar cable (+): 300 mm, (-): 300 mm;<br>Or Customized |

### PACKAGING CONFIGURATION

|                   |                                                                              |
|-------------------|------------------------------------------------------------------------------|
| Pallet Dimensions | 2310×1140×1251 mm                                                            |
| Packing           | 40HC: 36pieces per pallet, 20 pallets<br>per truck, 720 pieces per container |

### ELECTRICAL SPECIFICATIONS (STC)

|                                             |           |       |       |       |       |       |
|---------------------------------------------|-----------|-------|-------|-------|-------|-------|
| Maximum Power [P <sub>max</sub> /W]         | 575       | 580   | 585   | 590   | 595   | 600   |
| Maximum Power Voltage [V <sub>mp</sub> /V]  | 44.51     | 44.65 | 44.79 | 44.93 | 45.07 | 45.22 |
| Maximum Power Current [I <sub>mp</sub> /A]  | 12.92     | 13.01 | 13.08 | 13.15 | 13.21 | 13.27 |
| Open-circuit Voltage[V <sub>oc</sub> /V]    | 52.33     | 52.48 | 52.63 | 52.78 | 52.93 | 53.08 |
| Short Circuit Current[I <sub>sc</sub> /A]   | 14.1      | 14.16 | 14.22 | 14.28 | 14.34 | 14.40 |
| Module efficiency(%)                        | 22.3      | 22.5  | 22.6  | 22.8  | 23.0  | 23.2  |
| Power Tolerance (W)                         | 0 ~ + 3%  |       |       |       |       |       |
| Temperature Coefficient (P <sub>max</sub> ) | -0.30%/°C |       |       |       |       |       |
| Temperature Coefficient (V <sub>oc</sub> )  | -0.25%/°C |       |       |       |       |       |
| Temperature Coefficient (I <sub>sc</sub> )  | 0.046%/°C |       |       |       |       |       |

### ELECTRICAL SPECIFICATIONS(BNPI)

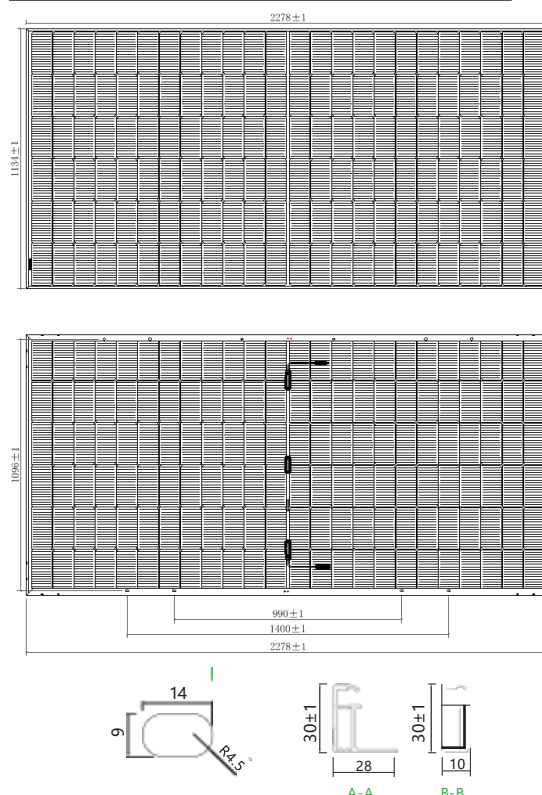
|                                           |                                                                                                                            |       |       |       |       |       |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|
| Maximum Power [P <sub>max</sub> /W]       | 635                                                                                                                        | 640   | 645   | 650   | 655   | 660   |
| Open-circuit Voltage[V <sub>oc</sub> /V]  | 52.33                                                                                                                      | 52.48 | 52.63 | 52.78 | 52.93 | 53.08 |
| Short Circuit Current[I <sub>sc</sub> /A] | 15.51                                                                                                                      | 15.58 | 15.64 | 15.71 | 15.77 | 15.84 |
| Bifacial test conditions (BNPI)           | Light intensity: front 1000W/m <sup>2</sup> , back 135W/m <sup>2</sup> , ambient temperature 25°C, atmospheric quality 1.5 |       |       |       |       |       |

### OPERATING PARAMETERS

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| Operational Temperature    | -40°C ~ +85°C                                                                    |
| Maximum System Voltage     | 1500VDC (IEC)                                                                    |
| Maximum Series Fuse Rating | 30 A                                                                             |
| Bifacity                   | φV <sub>oc</sub> : 98±3 %, φI <sub>sc</sub> : 80±3 %, φP <sub>max</sub> : 80±3 % |

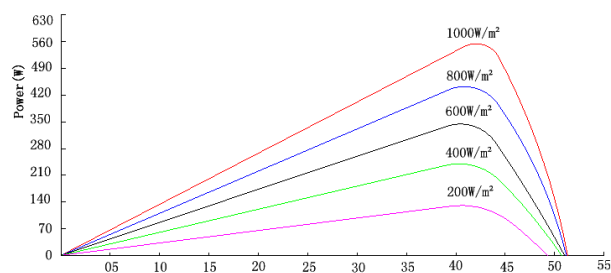
STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

### Dimensions



### Curves

P-V Curves of PV Module GEO-NM10-72D585w



I-V Curves of PV Module GEO-NM10-72D585w

