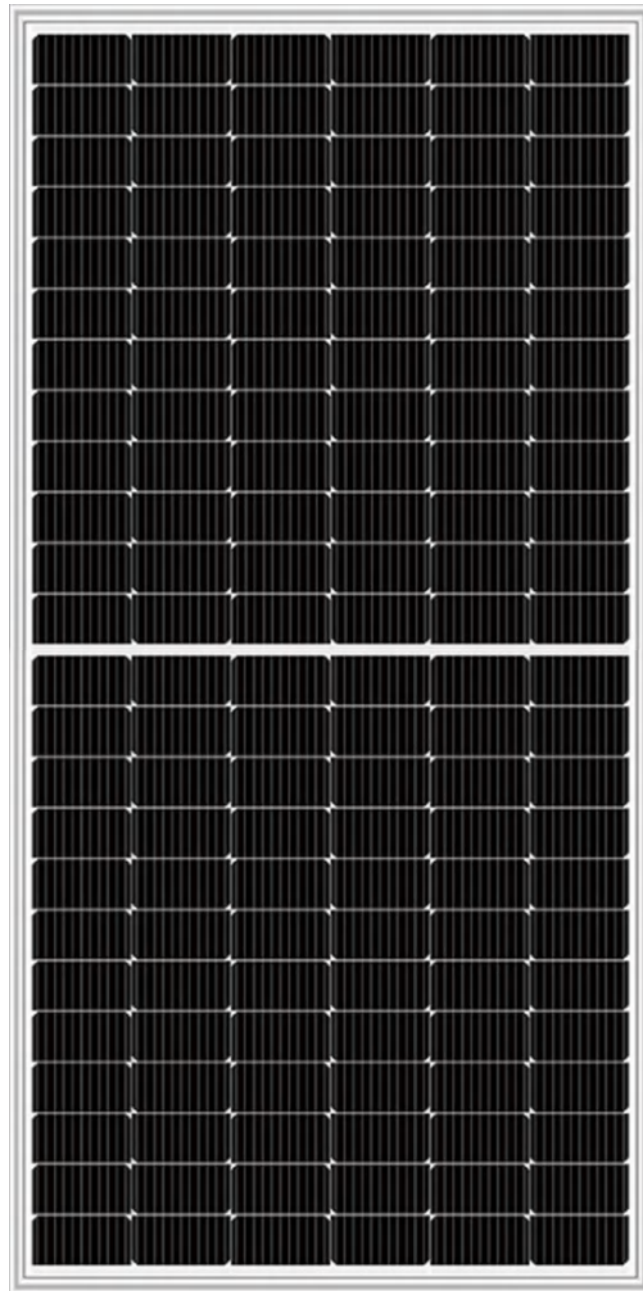


# HALF CELL MONO PERC SOLAR PANEL (535W-555W)

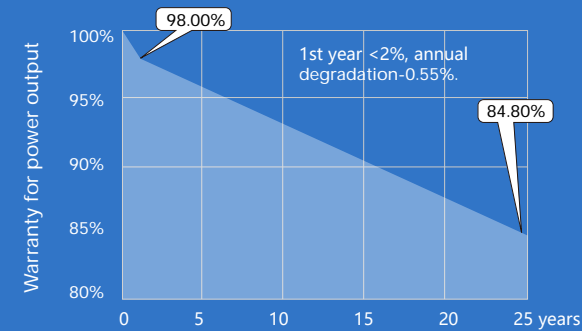


## Features of Module

- Multiple Busbars (MBB)**  
 Densely distributed grid lines, uniform load, multi-busbars design. Output power increased by more than 5W.
- Lossless cut**  
 Lossless cutting technology, no mechanical damages, smooth cutting surface without burrs. Low cell cracking risks, micro-cracking is reduced by more than 50%.
- Half-cut**  
 Current density is reduced by 1/2. Internal power loss reduced to 1/4 of conventional modules. Rated output power increased by 5~10W.
- New Welding Wire**  
 Adopt round wire solder ribbon, low shading area. Multiple reflections of incident light, power increased by 1-2W.
- Shading, not compromising energy**  
 Up-down symmetrical parallel module design. Effectively reduce current mismatch due to shading.
- High-Density Encapsulation Technology**  
 Adopts advanced high-density encapsulation technology to ensure the perfect balance of efficiency and reliability. Module efficiency increased by more than 0.15%.

## Linear Power Output Warranty

**15** 15-year warranty for materials.      **25** 25-year warranty for linear power output.



## Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand)  
 ISO 9001:2015/quality management system  
 ISO 14001:2015/ environmental management system  
 ISO 45001:2018/occupation health safety management system  
 ISO 50001:2011/ energy management system  
 IEC TS 62941—2016/ PV industry quality management system



## Product Data Sheet

### ELECTRICAL CHARACTERISTICS (STC)

| Module type: ANM                      | 535   | 540   | 545   | 550   | 555   |
|---------------------------------------|-------|-------|-------|-------|-------|
| Maximum power - Pm (W)                | 535   | 540   | 545   | 550   | 555   |
| Open circuit voltage - Voc (V)        | 49.4  | 49.5  | 49.7  | 49.8  | 50    |
| Short circuit current Isc (A)         | 13.78 | 13.85 | 13.92 | 13.98 | 14.04 |
| Voltage at maximum power point Vm (V) | 41.5  | 41.7  | 41.8  | 42.0  | 42.1  |
| Current at maximum power point Im (A) | 12.90 | 12.97 | 13.04 | 13.12 | 13.19 |
| Module efficiency - n (%)             | 20.9  | 21.1  | 21.3  | 21.5  | 21.7  |

### ELECTRICAL CHARACTERISTICS (NMOT)

|                                       | 400   | 404   | 407   | 411   | 415   |
|---------------------------------------|-------|-------|-------|-------|-------|
| Maximum power - Pm (W)                | 400   | 404   | 407   | 411   | 415   |
| Open circuit voltage - Voc (V)        | 46.4  | 46.5  | 46.7  | 46.8  | 47.0  |
| Short circuit current Isc (A)         | 11.14 | 11.20 | 11.25 | 11.31 | 11.35 |
| Voltage at maximum power point Vm (V) | 38.6  | 38.7  | 38.8  | 39.0  | 39.1  |
| Current at maximum power point Im (A) | 10.38 | 10.43 | 10.49 | 10.56 | 10.61 |

\* STC: Irradiation 1000W/m<sup>2</sup>; AM1.5; environmental temperature 25°C; tested according to EN 60904-3;  
 \* NMOT: irradiation 800W/m<sup>2</sup>; wind speed 1m/s; environmental temperature 20°C  
 \* Pm tolerance: 0~+5W; power test uncertainty: ±3%; Voc[V], Isc[A], Vm[V] and Im[A] test tolerance: +3%

### MECHANICAL PARAMETERS

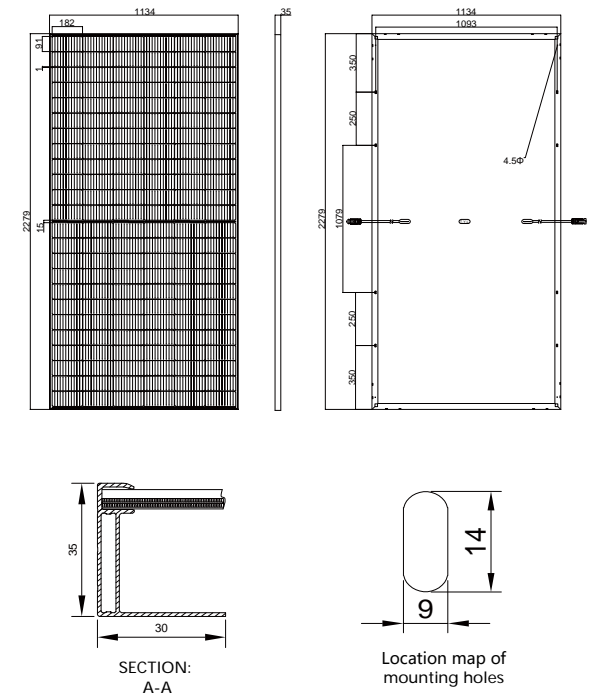
|                |                                                        |
|----------------|--------------------------------------------------------|
| Size           | 2278x1134x30mm (LxWxH)                                 |
| Weight         | 27.3kg                                                 |
| Front glass    | 3.2mm toughened glass                                  |
| Cell           | Monocrystalline PERC 182x91mm, 72*2 pcs                |
| Backplate      | High weather resistance                                |
| Frame          | Anodic alumina profile                                 |
| Junction box   | IP68, TUV, 3diodes                                     |
| Cable          | 4mm <sup>2</sup> , 300mm Wire length can be customized |
| Connector      | MC4 compatible/original EVO2                           |
| Packaging mode | 31pcs/pack; 720pcs/40HQ                                |

### TEMPERATURE PARAMETERS

|                                               |                 |
|-----------------------------------------------|-----------------|
| NMOT                                          | 42.30 °C (±2°C) |
| Open circuit voltage temperature coefficient  | -0.27%/°C       |
| Short circuit current temperature coefficient | +0.04%/°C       |
| Maximum power temperature coefficient         | -0.34%/°C       |

### MAXIMUM RATED PARAMETERS

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Maximum system voltage (V)     | DC1500/1000 (IEC)                         |
| Maximum fuse rated current (A) | 20                                        |
| Maximum front static load (Pa) | 5400                                      |
| Working temperature (°C)       | -40~+85                                   |
| Hail resistance                | Maximum diameter 25mm, impact speed 23m/s |



## I-V Curve

