ZXM7-SHLDD144 Series

10BB HALF-CELL Bifacial Double Glass Monocrystalline PERC PV Module

525-550W  21.23%  0.45%
POWER RANGE  MAXIMUM EFFICIENCY  YEARLY DEGRADATION

12 YEARS PRODUCT WARRANTY  30 YEARS OUTPUT GUARANTEE

IEC 61215/IEC 61730/IEC 61701/IEC 62716/UL6 1730
ISO 9001: Quality Management System
ISO 45001: Occupational Health and Safety Management System
ISO 14001: Environmental Management System

Key Features

**Excellent Cells Efficiency**  
MBB technology reduce the distance between busbars and finger grid line which is benefit to power increase.

**Anti PID**  
Ensured PID resistance through the quality control of cell manufacturing process and raw materials.

**TIER 1**  
Global Tier 1 bankable brand, with independently certified advanced automated manufacturing.

**Bifacial Technology**  
Up to 25% additional power gain from back side depending on albedo.

**Better Weak Illumination Response**  
More power output in weak light condition, such as haze, cloudy, and early morning.

**Adapt To Harsh Outdoor Environment**  
Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity environment.

**Excellent Quality Management System**  
Warranted reliability and stringent quality assurances well beyond certified requirements.

*As there are different certification requirements in different markets, please contact your local ZNSHINE sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

*Please check the valid version of Limited Product Warranty which is officially released by ZNSHINE PV-TECH Co., Ltd.

Founded in 1988, ZNSHINE solar is a world's leading high-tech PV module manufacturer. With the advanced production lines, the company boasts module capacity of 6GW. Bloomberg has listed ZNSHINE as a global Tier 1 PV module maker. Today ZNShine has distributed its sales to more than 60 countries around the globe.
DIMENSIONS OF PV MODULE(mm)

ELECTRICAL CHARACTERISTICS WITH 25% REAR SIDE POWER GAIN*

<table>
<thead>
<tr>
<th>Front power Pmax/W</th>
<th>525</th>
<th>530</th>
<th>535</th>
<th>540</th>
<th>545</th>
<th>550</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage (V)</td>
<td>392.70</td>
<td>396.40</td>
<td>399.90</td>
<td>403.60</td>
<td>406.80</td>
<td>410.80</td>
</tr>
<tr>
<td>Current (A)</td>
<td>38.00</td>
<td>38.20</td>
<td>38.40</td>
<td>38.50</td>
<td>38.80</td>
<td>38.90</td>
</tr>
<tr>
<td>Maximum Power Current (A)</td>
<td>10.33</td>
<td>10.38</td>
<td>10.42</td>
<td>10.47</td>
<td>10.49</td>
<td>10.56</td>
</tr>
<tr>
<td>Open Circuit Voltage (V)</td>
<td>46.00</td>
<td>46.20</td>
<td>46.30</td>
<td>46.50</td>
<td>46.70</td>
<td>46.90</td>
</tr>
<tr>
<td>Short Circuit Current (A)</td>
<td>10.98</td>
<td>11.02</td>
<td>11.07</td>
<td>11.12</td>
<td>11.17</td>
<td>11.22</td>
</tr>
</tbody>
</table>

*Remark: customized frame color and cable length available upon request

**I-V CURVES OF PV MODULE(530W)**

**P-V CURVES OF PV MODULE(530W)**

**ELECTRICAL CHARACTERISTICS | STC**

- Nominal Power Watt Pmax(W)*: 525, 530, 535, 540, 545, 550
- Power Output Tolerance Pmax(%): 0~+3
- Maximum Power Voltage Vmp(V): 40.40
- Maximum Power Current Imp(A): 12.85
- Open Circuit Voltage Voc(V): 49.20
- Short Circuit Current Isc(A): 13.59
- Module Efficiency (%): 20.32

*The data above is for reference only and the actual data is in accordance with the practical testing

**MECHANICAL DATA**

- Solar cells: Mono PERC
- Cells orientation: 144 (6x24)
- Module dimension: 2278x1134x30 mm (With Frame)
- Weight: 32.1 kg
- Glass: 2.0 mm+2.0mm, High Transmission, AR Coated Heat Strengthened Glass
- Junction box: IP 68, 3 diodes
- Cables: 4 mm², 1250 mm (With Connectors)
- Connectors: MC4-EV02

**TEMPERATURE RATINGS**

- N孟DT: 44°C ±2°C
- Maximum system voltage: 1500 V DC
- Temperature coefficient of Pmax: -0.35%/°C
- Operating temperature: -40°C~+85°C
- Temperature coefficient of Voc: -0.29%/°C
- Maximum series fuse: 30 A
- Temperature coefficient of Isc: 0.05%/°C
- Front Side Maximum Static Loading: Up to 5400Pa
- Rear Side Maximum Static Loading: Up to 2400Pa

**WORKING CONDITIONS**

- Refer Bifacial Factor: 70%±5%

**PACKAGING CONFIGURATION**

- Piece/Box: 36
- Piece/Container (40'HQ): 720

Note: Specifications included in this datasheet are subject to change without notice. ZNSHINE reserves the right of final interpretation. © ZNSHINE SOLAR 2022 | Version: ZXM7-SHLDD144 2201.E

No special undertaking or warranty for the suitability of special purpose or being installed in extraordinary surroundings is granted unless as otherwise specifically committed by manufacturer in contract document.