Hounen Solar 10BB HALF-CELL Bifacial Monocrystalline P-TYPE Solar Module

KEY FEATURES

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

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

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

- **Better Weak Illumination Response**
  More power output in weak light conditions, 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.

LINEAR PERFORMANCE WARRANTY

- **12 YEARS PRODUCT WARRANTY**

- **25 YEARS OUTPUT GUARANTEE**

IEC61730, UL61730
ISO9001:2015: Quality Management System
ISO14001:2015: Environment Management System
ISO45001:2018 Occupational health and safety management systems
**DIMENSIONS OF PV MODULE (mm)**

<table>
<thead>
<tr>
<th>Module Type</th>
<th>STC</th>
<th>NMOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HNM7-SHDB132-490/M</td>
<td>490</td>
<td>366.40</td>
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<td>HNM7-SHDB132-500/M</td>
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<tr>
<td>HNM7-SHDB132-510/M</td>
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<tr>
<td>HNM7-SHDB132-515/M</td>
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<td>384.70</td>
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**ELECTRICAL CHARACTERISTICS**

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<th>Module Type</th>
<th>NMOT</th>
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<tbody>
<tr>
<td>STC</td>
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<td>HNM7-SHDB132-515/M</td>
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</table>

**MECHANICAL DATA**

- **Solar cells**: Mono P-Type
- **Cells orientation**: 132 (6x22)
- **Module dimension**: 2094x1134x30 (With Frame)
- **Weight**: 25.0x1Kg
- **Glass**: 3.2mm, High Transmission, AR Coated Tempered Glass
- **Junction Box**: IP68, 3 diodes
- **Cables**: 4 mm², 350mm (With Connectors)
- **Connectors**: MC4

*Please refer to regional datasheet for specified connector.

**WORKING CONDITIONS**

- **Maximum System Voltage**: 1500VDC
- **Operating Temperature**: -40°C~+85°C
- **Maximum Fuse Rating**: 30A
- **Rear Side Mechanical Load**: 2400Pa
- **Front Side Mechanical Load**: 5400Pa
- **Safty Class**: Class II

**TEMPERATURE RATINGS**

- **NMOT**: 44°C±2°C
- **Temperature coefficient of Pmax**: -0.35%/℃
- **Temperature coefficient of Voc**: -0.29%/℃
- **Temperature coefficient of Isc**: 0.05%/℃
- **Refer. Bifacial Factor**: 70±5%

**PACKAGE CONFIGURATION**

- **Container**: 40’HQ
- **Piece/Box**: 36
- **Piece/Container**: 792

*Customized packaging is available upon request.

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**BARCODE**

- **1**: Mounting holes
- **2**: Mounting holes
- **3**: Drainage holes
- **4**: Grounding holes

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**I-V CURVES OF PV MODULE (490W)**

- **Cells temp. = 25 °C**
- **Incident Irrad. = 1000 W/m²**

**P-V CURVES OF PV MODULE (490W)**

- **Cells temp. = 25 °C**
- **Incident Irrad. = 1000 W/m²**

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*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25±2℃, AM 1.5.

*NMOT: Irradiance 800W/m², Ambient Temperature 20℃, AM 1.5, Wind Speed 1m/s.

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

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Specifications included in this datasheet are subject to change without notice.