THE OFF-GRID MODULE

36 CELL MULTICRYSTALLINE MODULE

45-50W POWER OUTPUT RANGE

5 YEAR POWER WARRANTY

25 YEAR POWER WARRANTY

As a leading global manufacturer of next generation photovoltaic products, we believe close cooperation with our partners is critical to success. With local presence around the globe, Trina is able to provide exceptional service to each customer in each market and supplement our innovative, reliable products with the backing of Trina as a strong, bankable partner. We are committed to building strategic, mutually beneficial collaboration with installers, developers, distributors and other partners as the backbone of our shared success in driving Smart Energy Together.

Trina Solar Limited
www.trinasolar.com

International certification

Guaranteed power output -3~+3%

Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa

High performance under low light conditions Cloudy days, mornings and evenings

Manufactured according to International Quality and Environment Management System ISO9001, ISO14001
THE OFF GRID MODULE

TSM-PC24

ELECTRICAL DATA @ STC

<table>
<thead>
<tr>
<th>Description</th>
<th>TSM-PC24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Peak Power Watts-P_{Max} (Wp)</td>
<td>45</td>
</tr>
<tr>
<td>Power Output Tolerance-P_{Max} (%)</td>
<td>-3/+3</td>
</tr>
<tr>
<td>Maximum Power Voltage-V_{mp} (V)</td>
<td>17.6</td>
</tr>
<tr>
<td>Maximum Power Current-I_{p} (A)</td>
<td>2.56</td>
</tr>
<tr>
<td>Open Circuit Voltage-V_{oc} (V)</td>
<td>22.1</td>
</tr>
<tr>
<td>Short Circuit Current-I_{sc} (A)</td>
<td>2.95</td>
</tr>
</tbody>
</table>

Temperature Ratings

- Nominal Operating Cell Temperature (NOCT): 46°C (±2°C)
- Temperature Coefficient of P_{Max}: -0.43%/°C
- Temperature Coefficient of V_{oc}: -0.32%/°C
- Temperature Coefficient of I_{sc}: 0.05%/°C

Maximum Ratings

- Operational Temperature: -40~85°C
- Maximum System Voltage: 1000VDC
- Max Series Fuse Rating: 15A

Warranty

- 5 year workmanship warranty
- 25 year performance warranty

(Please refer to Trina Solar product warranty for details)

Packaging Configuration

- Modules per box: 24 pcs
- Modules per 40’ container: 2736 pcs

Mechanical Data

- Cells orientation: 36 cells (4 × 9)
- Module dimension: 554 × 670 × 40mm (21.8 × 26.4 × 1.57 inches)
- Weight: 4.7kg (10.4 lb)
- Glass: High transmission, low iron, tempered glass 3.2mm (0.13 inches)
- Frame: Anodized aluminium alloy
- J-Box: IP 65 or IP 67 rated
- Cables / Connector: Photovoltaic technology cable 4.0mm² (0.006 inches²), 400mm (15.7 inches), MC4 compatibility

Certification

- Values of Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C).

Dimensions of PV Module: TSM-45 PC 24
CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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