Assembled with MBB bifacial PERCIUM cells and half-cell configuration, these double glass modules have the capability of converting the incident light from the rear side together with the front side into electricity, providing higher output power, lower temperature coefficient, less shading loss, as well as enhanced tolerance for mechanical loading.

Higher output power
Less shading effect
Lower temperature coefficient

Superior Warranty
- 12-year product warranty
- 30-year linear power output warranty

Comprehensive Certificates
- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
**OPERATING CONDITIONS**

- **Maximum System Voltage**: 1500V DC
- **Operating Temperature**: -40°C to +85°C
- **Maximum Series Fuse**: 20A
- **Maximum Static Load, Front**: 3600Pa
- **Maximum Static Load, Back**: 1600Pa
- **NOCT**: 45±2°C
- **Bifacility**: 70±10%

**CHARACTERISTICS**

- **Current-Voltage Curve**
- **Power-Voltage Curve**
- **Current-Voltage Curve**

**MECHANICAL DIAGRAMS**

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Rated Maximum Power (Pmax) [W]</strong></td>
<td>390</td>
<td>395</td>
<td>400</td>
<td>405</td>
<td>410</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc) [V]</td>
<td>49.05</td>
<td>49.31</td>
<td>49.57</td>
<td>49.82</td>
<td>50.08</td>
</tr>
<tr>
<td>Maximum Power Voltage (Vmp) [V]</td>
<td>41.49</td>
<td>41.76</td>
<td>42.02</td>
<td>42.28</td>
<td>42.54</td>
</tr>
<tr>
<td>Short Circuit Current (Isc) [A]</td>
<td>10.02</td>
<td>10.08</td>
<td>10.14</td>
<td>10.20</td>
<td>10.26</td>
</tr>
<tr>
<td>Module Efficiency [%]</td>
<td>19.1</td>
<td>19.3</td>
<td>19.5</td>
<td>19.6</td>
<td>20.0</td>
</tr>
<tr>
<td><strong>Power Tolerance</strong></td>
<td>0±5W</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Temperature Coefficient of Isc (α_Isc)</strong></td>
<td>+0.0441%/°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Temperature Coefficient of Voc (β_Voc)</strong></td>
<td>-0.272%/°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Temperature Coefficient of Pmax (γ_Pmp)</strong></td>
<td>-0.354%/°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>STC</strong></td>
<td>Irradiance 1000W/m², cell temperature 25°C, AM1.5G</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

**MECHANICAL FEATURES**

- **Grounding holes**: 6 places
- **Mounting holes**: 8 places
- **Draining holes**: 8 places

**Cable Length**

<table>
<thead>
<tr>
<th>(Including Connector)</th>
<th>Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-)</th>
</tr>
</thead>
</table>

**ELECTRICAL PARAMETERS AT STC**

- **Module Efficiency [%]**
- **Temperature Coefficient of Isc (α_Isc)**: +0.044%/°C
- **Temperature Coefficient of Voc (β_Voc)**: -0.272%/°C
- **Temperature Coefficient of Pmax (γ_Pmp)**: -0.354%/°C

**ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (REFERENCE TO 390W FRONT)**

- **Backside Power Gain**: 5%, 10%, 15%, 20%, 25%
- **Rated Max Power (Pmax) [W]**: 410, 429, 449, 468, 488
- **Open Circuit Voltage (Voc) [V]**: 49.10, 49.10, 49.10, 49.20, 49.20
- **Max Power Voltage (Vmp) [V]**: 41.50, 41.50, 41.50, 41.60, 41.60
- **Short Circuit Current (Isc) [A]**: 10.52, 11.02, 11.52, 12.02, 12.53
- **Max Power Current (Imp) [A]**: 9.88, 10.34, 10.82, 11.25, 11.73

**Country of Manufacturer**

- China/Vietnam

**QC4.10-35/45**

**Connector**

- Genuine MC4-EVO2

**Portraits**

- Landscape: 1200mm(+)/1200mm(-)
- Portrait: 300mm(+)/400mm(-)

**Cable Gaging**

- 4mm²

**Perspective**

- 390±1mm×1005±2mm×30±1mm

**Variation**

- 5% 10% 15% 20% 25%

Remark: Measurement tolerance at STC: Voc ±2%, Isc ±4% and Pmax ±3%.

*For NexTracker installations static loading performance: front load measure 2400Pa, while back load measures 2400Pa.

**CHARACTERISTICS**

- Premium Cells, Premium Modules

Version No.: Global_EN_20200531A