**Product Advantages**

- **High Efficiency**
  Module efficiency leading in industry, up to 20.4%.

- **High Reliability**
  Passed 3*IEC standard test.

- **Low Hot-spot Risk**
  1/2 current, reducing the hot spot temperature.

- **Excellent Loading Capability**
  2400Pa wind loads, 5400Pa snow loads, 8000Pa extra support.

- **Low NMOT**
  As low as 43°C, improving the power generation efficiency.

- **Half Cell, MBB Technology**
  Series-then-parallel cell connection design, more reliable soldering technology.

**Product Guarantee**

- **Module efficiency**
  20.4%

- **Highest power output**
  410W

- **First year power degradation**
  -2.50%

- **Annual degradation**
  -0.50%

- **Materials and workmanship warranty**
  12 Years

- **Linear power warranty**
  25 Years

**Product Certification**

[Various certification logos]
### Mechanical Characteristics

**Solar Cell**
- Monocrystalline 158.75mm

**No. of Cells**
- 144 (6 x 24)

**Dimensions**
- 2008 x 1002 x 40mm

**Weight**
- 23 kgs

**Front Glass**
- 3.2 mm tempered glass

**Frame**
- Anodized aluminium alloy

**Junction Box**
- IP68 rated (3 bypass diodes)

**Output Cables**
- 4.0 mm², symmetrical lengths (-) 1400mm and (+) 1400 mm

**Connectors**
- MC4 compatible

### Packing Configuration

<table>
<thead>
<tr>
<th>Container</th>
<th>20' GP</th>
<th>40' HC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pieces per pallet</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>Pallets per container</td>
<td>10</td>
<td>22</td>
</tr>
<tr>
<td>Pieces per container</td>
<td>260</td>
<td>616</td>
</tr>
</tbody>
</table>

### Electrical Characteristics

<table>
<thead>
<tr>
<th>STC</th>
<th>410</th>
<th>405</th>
<th>400</th>
<th>395</th>
<th>390</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Power at STC (Pmax)</td>
<td>410 W</td>
<td>405 W</td>
<td>400 W</td>
<td>395 W</td>
<td>390 W</td>
</tr>
<tr>
<td>Optimum Operating Voltage (Vmp)</td>
<td>42.2 V</td>
<td>42.0 V</td>
<td>41.8 V</td>
<td>41.6 V</td>
<td>41.4 V</td>
</tr>
<tr>
<td>Optimum Operating Current (Imp)</td>
<td>9.72 A</td>
<td>9.65 A</td>
<td>9.57 A</td>
<td>9.50 A</td>
<td>9.43 A</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>49.4 V</td>
<td>49.2 V</td>
<td>49.0 V</td>
<td>48.8 V</td>
<td>48.6 V</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>10.31 A</td>
<td>10.24 A</td>
<td>10.17 A</td>
<td>10.10 A</td>
<td>10.03 A</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>20.4%</td>
<td>20.1%</td>
<td>19.9%</td>
<td>19.6%</td>
<td>19.4%</td>
</tr>
</tbody>
</table>

### Temperature Characteristics

**Nominal Module Operating Temperature (NMOT)**
- 42±2°C

**Temperature Coefficient of Pmax**
- -0.37 %/°C

**Temperature Coefficient of Voc**
- -0.304%/°C

**Temperature Coefficient of Isc**
- 0.050 %/°C

### Current-Voltage & Power-Voltage Curve (410S)

- 1000 W/m², module temperature 25°C, AM=1.5, Tolerances of Pmax, Voc and Isc are all within +/- 5%.

- For field connections, use minimum No. 12 AWG copper wires insulated for a minimum of 90°C.

- Fire class rating: Fire Class C.

- Hazardous electricity can shock, burn or cause death. Do not touch terminals.

- Application Class A

- Conforms to UL 1703.