Features

- **Quality**
  - Product certification to IEC 61215
  - Protection class II / IEC 61730-II (FIRE Testing)
  - Hot-Spot Protect, PID Free

- **Product features**
  - Performance sorting −0/+5 Wp
  - Temperature coefficient $R_{app}=0.43\%$ K

- **Value chain**
  - Crystal–Wafer–Cell–Module

- **Components**
  - 3.2mm frontglass, 3 Diode
  - Nice Sun Cell NCS-156M3BB PERC Mono Cell

- **Warranty**
  - 10 years product material and craftwork
  - 25 years performance guarantee (90% up to 10 years, 80% up to 25 years)

- **Power classes**
  - 275-290wp

Benefits

- **PERC Cells:**
  - The mono cell with passivated backside
  - >20.2 average mass production efficiency

- **More Power Per m²:**
  - Higher conversion efficiency more power production per unit area

- **Lower System Cost:**
  - Higher conversion efficiency help you save
  - Transportation Cost
  - Installation Cost
  - BOS Cost

- **Excellent performance under low light environment**
  - Enhanced spectra response at longer wavelength boosts low-light performance, which can produce more than 3% additional power

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**NICE SUN GROUP**

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www.nicesunpv.com
# NCS - 6BM
## 156 PERC Series Monocrystalline

### PHYSICAL CHARACTERISTICS

- **Unit:** mm (in)
- **Drainage holes:** 14x9 (0.35x0.35) Mounting slots 8 places
- **2x4 (0.16) Ground holes 2 places**

### ELECTRICAL CHARACTERISTICS

#### Efficiciency at varied irradiation

<table>
<thead>
<tr>
<th>Irradiance</th>
<th>200W/m²</th>
<th>400W/m²</th>
<th>600W/m²</th>
<th>800W/m²</th>
<th>1000W/m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency</td>
<td>17.7%</td>
<td>17.8%</td>
<td>17.8%</td>
<td>17.8%</td>
<td>17.7%</td>
</tr>
</tbody>
</table>

#### Electrical Specifications

<table>
<thead>
<tr>
<th></th>
<th>NCS-6BM290</th>
<th>NCS-6BM285</th>
<th>NCS-6BM280</th>
<th>NCS-6BM275</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Peak Power (Pmax)</strong></td>
<td>290 W</td>
<td>285 W</td>
<td>280 W</td>
<td>275 W</td>
</tr>
<tr>
<td><strong>Maximum Power Voltage (Vmp)</strong></td>
<td>32.12 V</td>
<td>31.76 V</td>
<td>31.37 V</td>
<td>30.98 V</td>
</tr>
<tr>
<td><strong>Maximum Power Current (Imp)</strong></td>
<td>9.03 A</td>
<td>8.98 A</td>
<td>8.93 A</td>
<td>8.88 A</td>
</tr>
<tr>
<td><strong>Open Circuit Voltage (Voc)</strong></td>
<td>38.83 V</td>
<td>38.64 V</td>
<td>38.45 V</td>
<td>38.25 V</td>
</tr>
<tr>
<td><strong>Short Circuit Current (Isc)</strong></td>
<td>9.64 A</td>
<td>9.64 A</td>
<td>9.44 A</td>
<td>9.34 A</td>
</tr>
<tr>
<td><strong>Power Tolerance</strong></td>
<td>0 to + 5W</td>
<td>0 to + 5W</td>
<td>0 to + 5W</td>
<td>0 to + 5W</td>
</tr>
<tr>
<td><strong>Module Efficiency</strong></td>
<td>17.82 %</td>
<td>17.52 %</td>
<td>17.21 %</td>
<td>16.90 %</td>
</tr>
</tbody>
</table>

*Values at standard Test Conditions STC (Air Mass AM 1.5, Irradiance 1000W/m², Cell Temperature 25°C)*

### Mechanical Characteristics

- **Cell type:** PERC Mono Crystalline 156.75mm X 156.75mm
- **Dimensions:** 1640x992x40mm / 60(8x10)pcs in series
- **Weight:** 19kg (approx)
- **Front Glass:** 3.2mm tempered glass
- **Junction Box:** IP67
- **Output Cable:** 0.9mm wire (Ø4mm²)
- **Connectors:** MC4
- **Max Load:** 5400Pascals (112 lb/ft²)

### Packing Information

- **Container:** 20FT, 40FT, 40HQ
- **Pallets per Container:** 12, 28, 28

### Temperature Coefficient

<table>
<thead>
<tr>
<th>Coefficient</th>
<th>Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp. Coeff. of Isc (TK Isc)</td>
<td>0.046%/°C</td>
</tr>
<tr>
<td>Temp. Coeff. of Voc (TK Voc)</td>
<td>-0.309%/°C</td>
</tr>
<tr>
<td>Temp. Coeff. of Pmax (TK Pmax)</td>
<td>-0.437%/°C</td>
</tr>
</tbody>
</table>

**Nominal Operating Cell Temperature (NOCT):** 45°C ± 2°C

### Maximum RATINICS

- **Operating Temperature:** -40°C to +85°C
- **Maximum System Voltage:** 1000VDC(EU)/600VDC(US)
- **Maximum Series Fuse Rating:** 15A(EU)/10A(US)

The parameters are for reference only, and are subject to change without notice or obligation.