KuBlack
HIGH EFFICIENCY MONO PERC MODULE
CS3K-295|300|305|310MS
(1000 V / 1500 V)

MORE POWER

- Low power loss in cell connection
- Low temperature coefficient (Pmax): -0.36 % / °C
- Better shading tolerance

- Linear power output warranty* 25 years
- Product warranty on materials and workmanship* 10 years

MORE RELIABLE

- Minimizes micro-cracks
- Lower hot spot temperature
- Heavy snow load up to 6000 Pa, wind load up to 4000 Pa*

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES
ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*
IEC 61215 / IEC 61730: VDE / CE / MCS
UL 1703 / IEC 61215 performance: CEC listed (US) / FSEC (US Florida)
UL 1703: CSA / IEC 61701 ED2: VDE / IEC 62716: VDE
Take-e-way

* As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 33 GW deployed around the world since 2001.

* For detailed information, please refer to the Installation Manual.
**PARTNER SECTION**

**ELECTRICAL DATA | STC***

<table>
<thead>
<tr>
<th>Model</th>
<th>295MS</th>
<th>300MS</th>
<th>305MS</th>
<th>310MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Max. Power (Pmax)</td>
<td>295 W</td>
<td>300 W</td>
<td>305 W</td>
<td>310 W</td>
</tr>
<tr>
<td>Opt. Operating Voltage (Vmp)</td>
<td>32.3 V</td>
<td>32.5 V</td>
<td>32.7 V</td>
<td>32.9 V</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>39.1 V</td>
<td>39.3 V</td>
<td>39.5 V</td>
<td>39.7 V</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>9.73 A</td>
<td>9.82 A</td>
<td>9.90 A</td>
<td>9.98 A</td>
</tr>
<tr>
<td>Module Efficiency</td>
<td>17.75%</td>
<td>18.05%</td>
<td>18.36%</td>
<td>18.66%</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°C ~ +85°C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. System Voltage</td>
<td>1500V (IEC/UL) or 1000V (IEC/UL)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Module Fire Performance</td>
<td>TYPE 1 (UL 1703) or Class C (IEC 61730)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Series Fuse Rating</td>
<td>30 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application Classification</td>
<td>Class A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Tolerance</td>
<td>0 ~ + 5 W</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5, and cell temperature of 25°C.

**ELECTRICAL DATA | NMOT***

<table>
<thead>
<tr>
<th>Model</th>
<th>295MS</th>
<th>300MS</th>
<th>305MS</th>
<th>310MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Max. Power (Pmax)</td>
<td>219 W</td>
<td>223 W</td>
<td>226 W</td>
<td>230 W</td>
</tr>
<tr>
<td>Opt. Operating Voltage (Vmp)</td>
<td>29.9 V</td>
<td>30.1 V</td>
<td>30.3 V</td>
<td>30.5 V</td>
</tr>
<tr>
<td>Opt. Operating Current (Imp)</td>
<td>7.31 A</td>
<td>7.39 A</td>
<td>7.46 A</td>
<td>7.54 A</td>
</tr>
<tr>
<td>Open Circuit Voltage (Voc)</td>
<td>36.5 V</td>
<td>36.7 V</td>
<td>36.9 V</td>
<td>37.1 V</td>
</tr>
<tr>
<td>Short Circuit Current (Isc)</td>
<td>7.85 A</td>
<td>7.93 A</td>
<td>7.99 A</td>
<td>8.06 A</td>
</tr>
</tbody>
</table>

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

**MECHANICAL DATA**

- **Specification**
  - **Data**
  - **Cell Type** Mono-crystalline
  - **Cell Arrangement** 120 [2 X (10 X 6)]
  - **Dimensions** 1675 X 992 X 35 mm (65.9 X 39.1 X 1.38 in)
  - **Weight** 18.5 kg (40.8 lbs)
  - **Front Cover** 3.2 mm tempered glass
  - **Frame** Anodized aluminium alloy
  - **J-Box** IP68, 3 bypass diodes
  - **Cable** 4.0 mm² (IEC), 12 AWG (UL)
  - **Cable Length** Portrait: 400 mm (15.7 in) (+) / 280 mm (-) / landscape: 1160 mm (45.7 in)
  - **Connector** T4 series or H4 UTX or MC4-EVO2
  - **Per Pallet** 30 pieces
  - **Per Container (40' HQ)** 840 pieces

* For detailed information, please contact your local Canadian Solar sales and technical representatives.

**TEMPERATURE CHARACTERISTICS**

- **Specification**
  - **Data**
  - **Temperature Coefficient (Pmax)** -0.36 % / °C
  - **Temperature Coefficient (Voc)** -0.29 % / °C
  - **Temperature Coefficient (Isc)** 0.05 % / °C
  - **Nominal Module Operating Temperature** 43 ± 3°C

**PARTNER SECTION**

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