REC ALPHα SERIES

380 WP POWER

EXPERIENCE α PERFORMANCE

SOLAR'S MOST TRUSTED

REC 25 YEAR ProTrust WARRANTY

ELIGIBLE FOR

PRODUCT

α
### GENERAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cell Type</td>
<td>Heterojunction cell technology</td>
</tr>
<tr>
<td>Glass</td>
<td>3 mm solar glass with anti-reflection surface treatment</td>
</tr>
<tr>
<td>Backsheet</td>
<td>Highly resistant polymeric construction</td>
</tr>
<tr>
<td>Frame</td>
<td>Anodized aluminum (black)</td>
</tr>
<tr>
<td>Junction Box</td>
<td>3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790</td>
</tr>
</tbody>
</table>

**Electrical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output - P_{m,k} [Wp]</td>
<td>360, 365, 370, 375, 380</td>
</tr>
<tr>
<td>Watt Class Sorting - [W]</td>
<td>0/5, 0/5, 0/5, 0/5, 0/5</td>
</tr>
<tr>
<td>Nominal Power Voltage - V_{mpk} [V]</td>
<td>36.7, 37.1, 37.4, 37.8, 38.1</td>
</tr>
<tr>
<td>Nominal Power Current - I_{mpk} [A]</td>
<td>9.82, 9.85, 9.9, 9.94, 9.98</td>
</tr>
<tr>
<td>Open Circuit Voltage - V_{oc} [V]</td>
<td>43.9, 44, 44.1, 44.2, 44.3</td>
</tr>
<tr>
<td>Short Circuit Current - I_{sc} [A]</td>
<td>10.49, 10.52, 10.55, 10.58, 10.61</td>
</tr>
<tr>
<td>Power Density [W/m²]</td>
<td>205.71, 208.57, 211.42, 214.28, 217.14</td>
</tr>
<tr>
<td>Panel Efficiency [%]</td>
<td>20.6, 20, 21.2, 21.4, 21.7</td>
</tr>
<tr>
<td>Power Output - P_{max} [Wp]</td>
<td>274, 278, 282, 286, 289</td>
</tr>
<tr>
<td>Nominal Power Voltage - V_{mp} [V]</td>
<td>34.6, 35.0, 35.2, 35.6, 35.9</td>
</tr>
<tr>
<td>Nominal Power Current - I_{mp} [A]</td>
<td>7.93, 7.96, 8.00, 8.03, 8.06</td>
</tr>
<tr>
<td>Open Circuit Voltage - V_{oc} [V]</td>
<td>41.4, 41.5, 41.6, 41.6, 41.7</td>
</tr>
<tr>
<td>Short Circuit Current - I_{sc} [A]</td>
<td>8.47, 8.50, 8.52, 8.55, 8.57</td>
</tr>
</tbody>
</table>

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C) based on a production spread with a tolerance of P_{max}, V_{mp}, I_{mp}, ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxx indicates the nominal power class (P_{max}) at STC above.

**Electrical Data**

- Power Output: P_{max} [Wp]
- Watt Class Sorting: 0/5
- Nominal Power Voltage: V_{mpk} [V]
- Nominal Power Current: I_{mpk} [A]
- Open Circuit Voltage: V_{oc} [V]
- Short Circuit Current: I_{sc} [A]
- Power Density: [W/m²]
- Panel Efficiency: [%]
- Power Output: P_{max} [Wp]
- Nominal Power Voltage: V_{mp} [V]
- Nominal Power Current: I_{mp} [A]
- Open Circuit Voltage: V_{oc} [V]
- Short Circuit Current: I_{sc} [A]

**Certifications**

- IEC 61735:2016, IEC 61730:2016, UL 1703, UL 61730
- IEC 62804
- IEC 61701
- IEC 62716
- ISO 11925-2
- IEC 62792

**Warranty**

- Standard: No / Yes
- REC ProTrust: Yes / Yes

- System Size: All <25 kW, 25-500 kW
- Product Warranty: 20 / 25 / 25
- Power Warranty: 25 / 25 / 25
- Labor Warranty: 0 / 10
- Power in Year: 98% / 98% / 98%
- Annual Degradation: 0.25% / 0.25% / 0.25%
- Power in Year 25: 92% / 92% / 92%

See warranty documents for details. Conditions apply.

**Maximum Ratings**

- Operational temperature: -40...-85°C
- Maximum system voltage: 1000 V
- Design load (雪): 4666 Pa (475 kg/m²)
- Design load (风): 7000 Pa (713 kg/m²)
- Design load (风): 2666 Pa (272 kg/m²)
- Design load (风): 4000 Pa (407 kg/m²)
- Max series fuse rating: 25 A
- Calculated using a safety factor of 1.5

**Temperature Ratings**

- Nominal Module Operating Temperature: 44°C (±2°C)
- Temperature coefficient of P_{max}: -0.26% / °C
- Temperature coefficient of V_{oc}: -0.24% / °C
- Temperature coefficient of I_{sc}: -0.04% / °C

*The temperature coefficients stated are linear values.*

**Low Light Behaviour**

- Typical low irradiance performance of module at STC:


downloading graph

**Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.**