REC ALPHA α BLACK SERIES

375 WP POWER

SOLAR'S MOST TRUSTED

EXPERIENCE

α PERFORMANCE

ELIGIBLE FOR

PRODUCT

REC 25 YEAR ProTrust WARRANTY
### GENERAL DATA

- **Cell type:** 120 half-cut cells with REC heterojunction cell technology
- **Connectors:** Stabilux MC4PV-K8T4/KST4, 12 AWG (4 mm²) in accordance with IEC 62852
- **Glass:** 0.13 in (3.2 mm) solar glass with anti-reflection surface treatment
- **Backsheet:** Highly resistant polymeric construction (black)
- **Frame:** Anodized aluminum (black)
- **Junction box:** 3-part, 3 bypass diodes, IP67 rated in accordance with IEC62790

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Output - Pmax (Wp)</td>
<td>355 - 375</td>
</tr>
<tr>
<td>Watt Class Sorting - (W)</td>
<td>-0.5 - -0.5</td>
</tr>
<tr>
<td>Nominal Power Voltage - Vmp (V)</td>
<td>36.4 - 37.4</td>
</tr>
<tr>
<td>Nominal Power Current - Ipp (A)</td>
<td>9.77 - 9.9</td>
</tr>
<tr>
<td>Open Circuit Voltage - Voc (V)</td>
<td>43.6 - 44.1</td>
</tr>
<tr>
<td>Short Circuit Voltage - Isc (A)</td>
<td>10.47 - 10.55</td>
</tr>
<tr>
<td>Power Density (W/sq ft)</td>
<td>202.9 - 19.68</td>
</tr>
<tr>
<td>Panel Efficiency (%)</td>
<td>20.3 - 21.4</td>
</tr>
</tbody>
</table>

### STC

- **Power Output - Pmax (Wp):** 355 - 375
- **Nominal Power Voltage - Vmp (V):** 36.4 - 37.4
- **Nominal Power Current - Ipp (A):** 9.77 - 9.9
- **Open Circuit Voltage - Voc (V):** 43.6 - 44.1
- **Short Circuit Voltage - Isc (A):** 10.47 - 10.55
- **Power Density (W/sq ft):** 202.9 - 19.68
- **Panel Efficiency (%):** 20.3 - 21.4

### NMOT

- **Power Output - Pmax (Wp):** 271 - 282
- **Nominal Power Voltage - Vmp (V):** 34.3 - 35.6
- **Nominal Power Current - Ipp (A):** 7.89 - 8.00
- **Open Circuit Voltage - Voc (V):** 41.1 - 41.5
- **Short Circuit Current - Isc (A):** 8.46 - 8.50

### TEMPERATURE RATINGS

- **Nominal Module Operating Temperature:** 44°C (+2°C)
- **Temperature coefficient of Pmax:** -0.26%°C
- **Temperature coefficient of Voc:** -0.04%°C

### CERTIFICATIONS

- REC ProTrust Quality and Reliability Program

### WARRANTY

- Standard: Installed by an REC Certified Solar Professional
  - System Size: All
  - Product Warranty (yrs): 20
  - Power Warranty (yrs): 25
  - Labor Warranty (yrs): 25
  - Power in Year 25: 92%
  - Annual Degradation: 0.25%
- REC ProTrust: Installed by an REC Certified Solar Professional
  - System Size: All
  - Product Warranty (yrs): Yes
  - Power Warranty (yrs): Yes
  - Labor Warranty (yrs): Yes
  - Power in Year 25: Yes
  - Annual Degradation: Yes

### MAXIMUM RATINGS

- **Operational temperature:** -40...+85°C
- **Maximum system voltage:** 1000 V
- **Maximum design load (-): snow:** 4666 Pa (55.6 lbs/sq ft)
- **Maximum test load (+): wind:** 7000 Pa (146 lbs/sq ft)
- **Maximum design load (-): wind:** 2666 Pa (63.5 lbs/sq ft)
- **Maximum test load (+): snow:** 4000 Pa (31.0 lbs/sq ft)
- **Max series fuse rating:** 25 A
- **Max reverse current:** 25 A

### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC.

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**Notes:**
- Calculated using a safety factor of 1.5
- See installation manual for mounting instructions