REC ALPHα BLACK SERIES

375 WP POWER

EXPERIENCE PERFORMANCE

ELIGIBLE FOR

REC 25 YEAR ProTrust WARRANTY
**GENERAL DATA**

- **Cell type:** 120 half-cut cells with REC heterojunction cell technology
- **Glass:** 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

**ELECTRICAL DATA**

- **Nominal Power - P_{MAX} (Wp):**
  - REC Alpha Black Series
  - REC ProTrust
- **Watt Class Sorting - (W):**
  - -0/+5
- **Open Circuit Voltage - V_{OC} (V):**
  - REC Alpha Black Series
  - REC ProTrust
- **Short Circuit Current - I_{SC} (A):**
  - REC Alpha Black Series
  - REC ProTrust
- **Panel Efficiency (%):**
  - REC Alpha Black Series
  - REC ProTrust

**STC**

- **Irradiance (W/m²):**
  - 1000
- **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

**NMOT**

- **Nominal Module Operating Temperature (NMOT):**
  - 44 °C (±2 °C)
- **Temperature coefficient of P_{MAX} (NMOT):**
  - -0.26 %/°C
- **Temperature coefficient of V_{OC} (NMOT):**
  - -0.24 %/°C
- **Temperature coefficient of I_{SC} (NMOT):**
  - 0.04 %/°C

**LOW LIGHT BEHAVIOUR**

- **Typical low irradiance performance of module at STC:**

**CERTIFICATIONS**

- IEC 61215, IEC 61730, UL 1703, UL 61730
- IEC 62804 PID
- IEC 61701 Salt Mist
- ISO 10993-2 Ammonia Resistance
- UNI 947/974 Ignitability (Class E)
- IEC 62782 Dynamic Mechanical Load
- IEC 61215-2:2016 Hailstone (35mm)
- AS4040.2 NCC 2016 Cyclic Wind Load

**WARRANTY**

- Installed by a REC Certified Solar Professional: Yes, Yes, Yes
- System Size: All ≤25 kW, 25-500 kW
- Product Warranty (yrs): 20, 25, 25
- Power Warranty (yrs): 25, 25, 25
- Labor Warranty (yrs): 0, 25, 10
- Power in Year 1: 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.*

**STC N M O T**

- Installed by an REC Certified Solar Professional
- System Size: All ≤25 kW, 25-500 kW
- Product Warranty (yrs): 20, 25, 25
- Power Warranty (yrs): 25, 25, 25
- Labor Warranty (yrs): 0, 25, 10
- Power in Year 1: 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 (+): snow
  - 4666 Pa (475 kg/m²)
  - 7000 Pa (713 kg/m²)
- Design load (-): wind
  - 2666 Pa (272 kg/m²)
  - 4000 Pa (407 kg/m²)
- Max series fuse rating: 25 A
- Max reverse current: 25 A

*See installation manual for mounting instructions.*

**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.*

**WARRANTY**

- Installed by an REC Certified Solar Professional: Yes, Yes, Yes
- System Size: All ≤25 kW, 25-500 kW
- Product Warranty (yrs): 20, 25, 25
- Power Warranty (yrs): 25, 25, 25
- Labor Warranty (yrs): 0, 25, 10
- Power in Year 1: 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 (+): snow
  - 4666 Pa (475 kg/m²)
  - 7000 Pa (713 kg/m²)
- Design load (-): wind
  - 2666 Pa (272 kg/m²)
  - 4000 Pa (407 kg/m²)
- Max series fuse rating: 25 A
- Max reverse current: 25 A

*See installation manual for mounting instructions.*

**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: