REC ALPHα SERIES

PRODUCT SPECIFICATIONS

380 WP
20.2 W/FT²

EXPERIENCE

SOLAR’S MOST TRUSTED

ELIGIBLE

PRODUCT

REC
25 YEAR
ProTrust
WARRANTY

PERFORMANCE

2020
WINNER
General Data

- Cell type: 120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series
- Connectors: Stabil MC4PV-KBT4/KST4,12 AWG(4mm²) in accordance with IEC 62852 IP68 only when connected
- Glass: 0.13 in (3.2 mm) solar glass with anti-reflection surface treatment
- Backsheet: Highly resistant polymeric construction
- Frame: Anodized aluminum (black)
- Junction box: 3-part, 3 bypass diodes, IP68 rated in accordance with IEC 62790

Electrical Data

- Power Output - P_{max} (Wp): 360, 365, 370, 375, 380
- Watt Class Sorting - (W): -0.5, -0.5, -0.5, -0.5, -0.5
- Nominal Power Voltage - V_{mp}(V): 36.7, 37.1, 37.4, 37.8, 38.1
- Open Circuit Voltage - V_{oc} (V): 43.9, 44.0, 44.1, 44.2, 44.3
- Short Circuit Current - I_{sc} (A): 10.49, 10.52, 10.55, 10.58, 10.61
- Panel Efficiency (%): 20.6, 20.9, 21.2, 21.4, 21.7

- Power Output - P_{max} (Wp): 274, 278, 282, 286, 289
- Nominal Power Voltage - V_{mp}(V): 34.6, 35.0, 35.2, 35.6, 35.9
- Nominal Power Current - I_{mp}(A): 7.93, 7.96, 8.00, 8.03, 8.06
- Open Circuit Voltage - V_{oc} (V): 41.4, 41.5, 41.6, 41.6, 41.7
- Short Circuit Current - I_{sc} (A): 8.47, 8.50, 8.52, 8.55, 8.57

- Temperature Coefficient of I_{mp}: -0.26%/°C
- Temperature Coefficient of V_{mp}: -0.24%/°C
- Temperature Coefficient of I_{sc}: 0.04%/°C

Certifications

- IEC 62804
- IEC 61701
- IEC 62716
- UL 1703
- IEC 62782
- AS4040.2 NCC 2016

Warranty

- Installed by an REC Certified Solar Professional: No, 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%

Maximum Ratings

- Operational temperature: -40°C to +85°C (-40°F to +185°F)
- Maximum system voltage: 1000 V
- Maximum test load (front): +7000 Pa (146 lbs/sq ft)
- Maximum test load (rear): -4000 Pa (83.5 lbs/sq ft)
- Max series fuse rating: 25 A
- Max reverse current: 25 A

Temperature Ratings

- Nominal Module Operating Temperature: 44°C (112°F)
- Temperature coefficient of P_{max}: -0.26%/°C
- Temperature coefficient of V_{mp}: -0.24%/°C
- Temperature coefficient of I_{sc}: 0.04%/°C

Low Light Behaviour

Typical low irradiance performance of module at STC.

Rec Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar’s Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.