REC ALPHA®
PURE-RX SERIES
DATASHEET

470 Wp
22.6% EFFICIENCY
21 W/ft²

9 A MODULE CURRENT
COMPATIBLE WITH MLPE

SOLAR'S MOST TRUSTED

EXPERIENCE
α
PERFORMANCE

REC
### GENERAL DATA

**Cell Type**: 88 half-cut bifacial REC heterojunction cells, with gapless technology

**Glass**: 0.13 in. solar glass with anti-reflective surface treatment in accordance with EN12150

**Backsheet**: Highly resistant polymer (Black)

**Frame**: Anodized aluminum (Black)

**Junction Box**: 4-part, 4 bypass diodes, IP68 rated, in accordance with IEC 62790

**Connectors**: Stäubli MC4 PV-KBT4/KST4 (12AWG) in accordance with IEC 62882: IP68 only when connected

**Cable**: 12 AWG solar cable, 66.9 in. + 66.9 in. in accordance with EN50618

**Dimensions**: 68 x 47.4 x 1.2 in. (22.4 ft²)

**Weight**: 50 lbs

**Origin**: Made in Singapore

### ELECTRICAL DATA

**Power Output - P_{max} (W)

| 450 | 460 | 470 |

**Watt Class Sorting - W**: 0/+10

**Nominal Power Voltage - V_{mpp} (V)**: 54.3, 54.9, 55.4

**Nominal Power Current - I_{mpp} (A)**: 8.29, 8.38, 8.49

**Open Circuit Voltage - V_{oc} (V)**: 65.1, 65.3, 65.6

**Short Circuit Current - I_{sc} (A)**: 8.81, 8.88, 8.95

**Power Density (W/ft²)**: 20.1, 20.5, 21.0

**Panel Efficiency (%)**: 21.6, 22.1, 22.6

**Power Output - P_{max} (W)

| 343 | 350 | 358 |

**Nominal Power Voltage - V_{mpp} (V)**: 51.2, 51.7, 52.2

**Nominal Power Current - I_{mpp} (A)**: 6.70, 6.77, 6.86

**Open Circuit Voltage - V_{oc} (V)**: 61.3, 61.6, 61.8

**Short Circuit Current - I_{sc} (A)**: 7.17, 7.17, 7.23

### TEMPERATURE RATINGS*

**Nominal Module Operating Temperature**: 44 °C ± 2°C

**Temperature coefficient of P_{max}**: -0.24%/K

**Temperature coefficient of V_{mpp}**: -0.24%/K

**Temperature coefficient of I_{sc}**: 0.04%/K

*The temperature coefficients stated are linear values

### MAXIMUM RATINGS*

**Operational Temperature**: -40°F to 185°F

**System Voltage**: 1000 V

**Maximum Test Load (front)**: +7000 Pa (146 lb/ft²)

**Maximum Test Load (rear)**: -4000 Pa (83.4 lb/ft²)

**Max Series Fuse Rating**: 25 A

**Max Reverse Current**: 25 A

*See installation manual for mounting instructions, Design load = Test load / 1.5 (safety factor)

### LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC.

### WARRANTY

**Certified Professional**: Yes

**Installed by an REC**: Yes

**Product Warranty (yrs)**: 20, 25, 25

**Power Warranty (yrs)**: 20, 25, 25

**Labor Warranty (yrs)**: 0, 25, 10

**System Size**: All <25 kW, 25-500 kW

**Power in Year 1**: 98% 98% 98%

**Power in Year 25**: 92% 92% 92%

**Annual Degradation**: 0.25% 0.25% 0.25%

**Power in Year 25**: 92% 92% 92%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.