SOLAR'S MOST TRUSTED



# REC ALPHA® PURE-RX SERIES PRODUCT SPECIFICATIONS

470 WP 22.6% EFFICIENCY 21.0<sup>W</sup> 50-FT

COMPACT PANEL SIZE

9 A MODULE CURRENT COMPATIBLE WITH MLPE







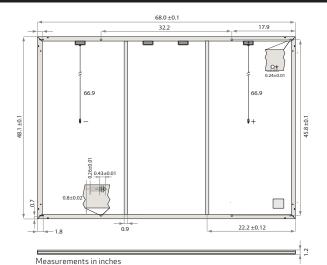
## REC ALPHA PURE-RX SERIES





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Cell type:	88 half-cut REC heterojunction cells with lead-free, gapless technology
Glass:	0.12 in solar glass with anti-reflective surface treatment in accordance with EN 12150
Backsheet:	Highly resistant polymer
Frame:	Anodized aluminum (black)
Junction box:	4-part, 4 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (12 AWG) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG solar cable, 66.9 + 66.9 in in accordance with EN 50618
Dimensions:	68.0 x 48.1 x 1.2 in (22.4 sq-ft)
Weight:	51.2 lbs
Origin:	Made in Singapore



**ELECTRICAL DATA** Product Code\*: RECxxxAA Pure-RX Power Output - P<sub>MAX</sub> (Wp) 450 460 470 0/+10 0/+10 0/+10 Watt Class Sorting - (W) Nominal Power Voltage - V<sub>MPP</sub>(V) 54.3 54.9 55.4 Nominal Power Current -  $I_{MPP}(A)$ 8.29 8.38 8.49 Open Circuit Voltage - V<sub>oc</sub> (V) 65.1 65.3 65.6 Short Circuit Current - I<sub>sc</sub> (A) 8.81 8.88 8.95 Power Density (W/sq-ft) 20.1 20.5 21.0 Panel Efficiency (%) 21.6 22.1 22.6 Power Output - P<sub>MAX</sub> (Wp) 343 350 358 Nominal Power Voltage -  $V_{MPP}(V)$ 51.7 52.2 512 Nominal Power Current - I<sub>MPP</sub> (A) 6.70 6.77 6.86 Open Circuit Voltage - V<sub>oc</sub> (V) 61.3 61.6 61.8 Short Circuit Current - I<sub>sc</sub> (A) 7.11 7.17 7.23

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m<sup>2</sup>, temperature 77°F (25°C)), based on a production spread with a tolerance of P<sub>MAX</sub>, V<sub>DC</sub> & I<sub>SC</sub> ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s)). \* Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

### **MAXIMUM RATINGS**

STC

NMOT

Operational temperature:	-40+185°F
System voltage:	1000 V
Test load (front):	+7000 Pa (146.2 lbs/sq-ft)*
Test load (rear):	-4000 Pa (83.5 lbs/sq-ft)*
Series fuse rating:	25 A
Reverse current: °See installation m	25 A anual for mounting instructions.

Design load = Test load / 1.5 (safety factor)

WARRANTY			
	Standard	REC	ProTrust
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%
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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

Available from:

CERTIFICATIONS	
IEC 61215:2016, IEC 6	51730:2016, UL 61730
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
ISO 11925-2	Ignitability (EN 13501-1 Class E)
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
UL 61730	Fire Type 2
ISO 14001, ISO 9001, I	EC 45001, IEC 62941
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	Lead-Free

#### TEMPERATURE RATINGS

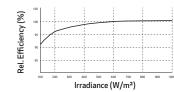
Nominal Module Operating Temperature:	44°C (±2°C)	
Temperature coefficient of P <sub>MAX</sub> :	-0.24 %/°K	
Temperature coefficient of $V_{oc}$ :	-0.24 %/°K	
Temperature coefficient of I <sub>sc</sub> :	0.04 %/°K	
*The temperature coefficients stated are linear value		

#### DELIVERY INFORMATION

33
594 (18 pallets)
792 (24 pallets)

#### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Specifications subject to change without notice. Ref: PM-DS-AAPRX-Rev- 3 08.23

Founded in 1996, 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.

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