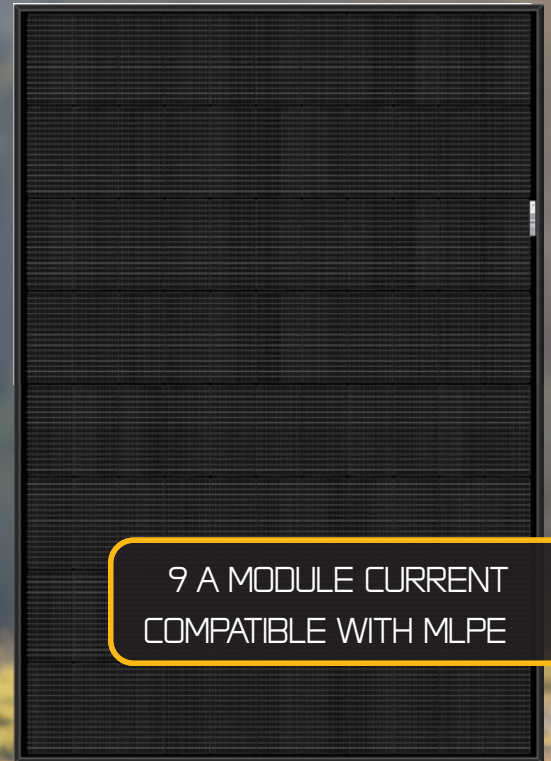


SOLAR'S MOST TRUSTED



# REC ALPHA<sup>®</sup> PURE-RX SERIES

DATASHEET



9 A MODULE CURRENT  
COMPATIBLE WITH MLPE

450-470 W<sub>P</sub>  
HETEROJUNCTION TECHNOLOGY

22.6% MAX. EFFICIENCY  
-0.24% /K TEMP. COEFF. P<sub>MAX</sub>  
92% MIN. POWER IN YEAR 25



ELIGIBLE

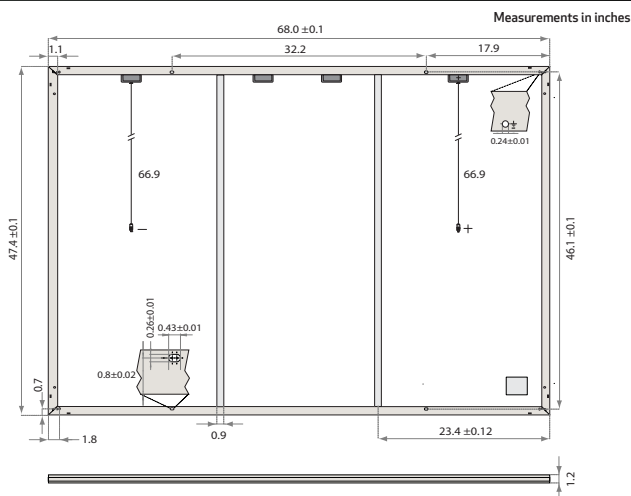
# REC ALPHA<sup>®</sup> PURE-RX SERIES

## DATASHEET



### 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 62852, 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 ft <sup>2</sup> )
Weight	50 lbs
Origin	Made in Singapore



### ELECTRICAL DATA

PRODUCT CODE\*: RECxxxAA Pure-RX

	450	460	470
Power Output - P <sub>MAX</sub> (W <sub>p</sub> )	450	460	470
Watt Class Sorting - (W)	0/+10	0/+10	0/+10
Nominal Power Voltage - V <sub>MPP</sub> (V)	54.3	54.9	55.4
Nominal Power Current - I <sub>MPP</sub> (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/ft <sup>2</sup> )	20.1	20.5	21.0
Panel Efficiency (%)	21.6	22.1	22.6

### CERTIFICATIONS

IEC 61215:2021; IEC61730:2016; UL61730  
 ISO 11925-2 Ignitability (EN 13501-1 Class E)  
 IEC 62716 Ammonia Resistance  
 IEC 61701 Salt Mist (SM6)  
 IEC 61215:2016 Hailstone (35mm)  
 UL 61730 Fire Type 2  
 ISO 14001; ISO9001; IEC45001; IEC62941



STC

NMOT

Power Output - P <sub>MAX</sub> (W <sub>p</sub> )	343	350	358
Nominal Power Voltage - V <sub>MPP</sub> (V)	51.2	51.7	52.2
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 AM1.5, 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>OC</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\*

Operational Temperature	-40 °F - 185 °F
System Voltage	1000 V
Maximum Test Load (front)	+7000 Pa (146 lb/ft <sup>2</sup> )
Maximum Test Load (rear)	-4000 Pa (83.4 lb/ft <sup>2</sup> )
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)

### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature	44 °C ± 2 °C
Temperature coefficient of P <sub>MAX</sub>	-0.24% /K
Temperature coefficient of V <sub>OC</sub>	-0.24% /K
Temperature coefficient of I <sub>SC</sub>	0.04% /K

\*The temperature coefficients stated are linear values

### DELIVERY INFORMATION

Panels per Pallet	33
Panels per 40 ft GP/high cube container	594 (18 Pallets)
Panels per 53 ft truck	792 (24 Pallets)

Available from:



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.

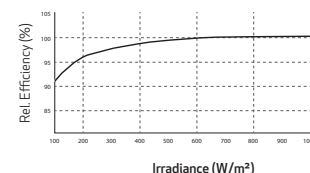
### WARRANTY

	Standard	REC ProTrust	
Installed by an REC Certified 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%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See [www.recgroup.com](http://www.recgroup.com) for more details

### LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC:



REC Solar PTE. LTD.  
 20 Tuas South Ave. 14  
 Singapore 637312  
[post@recgroup.com](mailto:post@recgroup.com)  
[www.recgroup.com](http://www.recgroup.com)



Specifications subject to change without notice.

Ref: PM-DS-12-06-Rev-4.4.5.2024