



SOLAR'S MOST TRUSTED



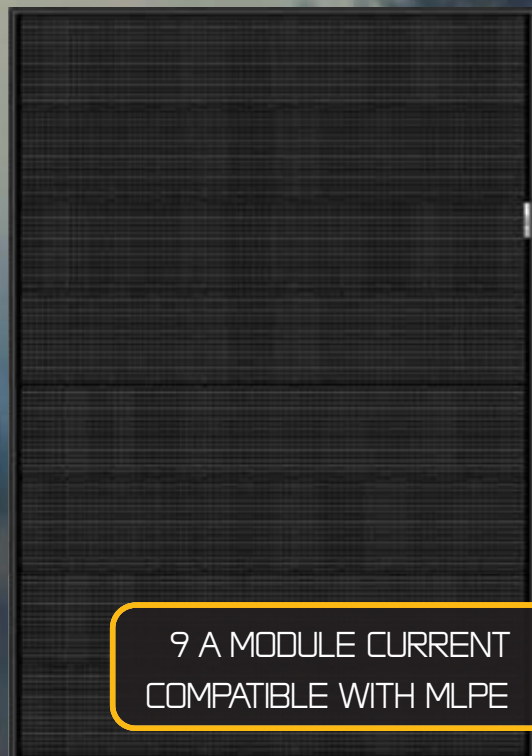
# REC ALPHA<sup>®</sup> PURE-RX SERIES

## DATASHEET

470 W<sub>P</sub>

22.6% EFFICIENCY

226 W/M<sup>2</sup>



9 A MODULE CURRENT  
COMPATIBLE WITH MLPE





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

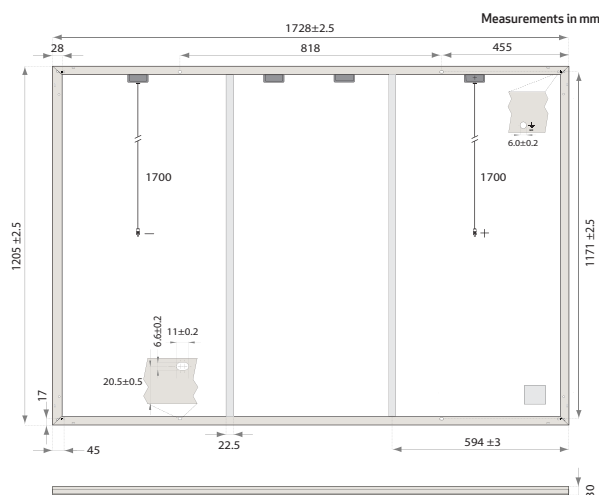
## DATASHEET



SOLAR'S MOST TRUSTED

### GENERAL DATA

Cell Type	88 half-cut bifacial REC heterojunction cells, with gapless technology
Glass	3.2 mm 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 (4 mm <sup>2</sup> ) in accordance with IEC 62852, IP68 only when connected
Cable	4 mm <sup>2</sup> solar cable, 1.7 m + 1.7 m in accordance with EN50618
Dimensions	1728 x 1205 x 30 mm (2.08 m <sup>2</sup> )
Weight	22.7 kg
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/m <sup>2</sup> )	216	221	226
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 (35 mm)
UL 61730 Fire Type 2
ISO 14001; ISO9001; IEC45001; IEC62941



Specifications subject to change without notice.

STC

	343	350	358
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 AM 1.5, irradiance 1000 W/m<sup>2</sup>, temperature 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 AM 1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, wind speed 1 m/s). \* Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

NMOT

### MAXIMUM RATINGS\*

Operational Temperature	-40 °C - 85 °C
System Voltage	1000 V
Maximum Test Load (front)	+7000 Pa (713 kg/m <sup>2</sup> )
Maximum Test Load (rear)	-4000 Pa (407 kg/m <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% / °C
Temperature coefficient of V <sub>OC</sub>	-0.24% / °C
Temperature coefficient of I <sub>SC</sub>	0.04% / °C

\*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 13.6 m truck	660 (20 Pallets)

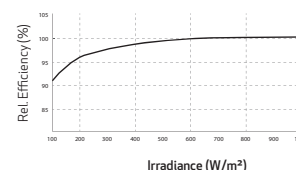
### WARRANTY

	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 BEHAVIOUR

Typical low irradiance performance of module at STC:



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