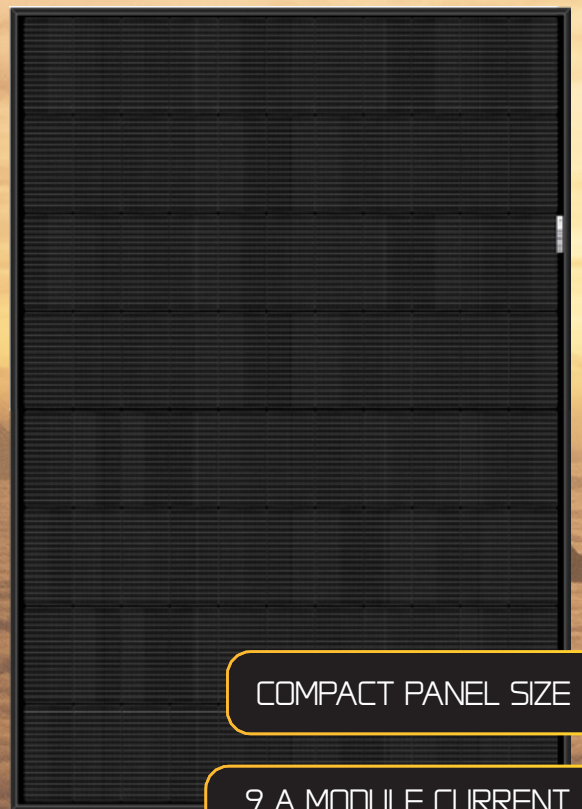


SOLAR'S MOST TRUSTED



# REC ALPHA PURE-RX SERIES

## PRODUCT SPECIFICATIONS



COMPACT PANEL SIZE

9 A MODULE CURRENT  
COMPATIBLE WITH MLPE

450<sub>WP</sub>  
216  $\frac{W}{M^2}$



ELIGIBLE



LEAD-FREE  
ROHS COMPLIANT

EXPERIENCE



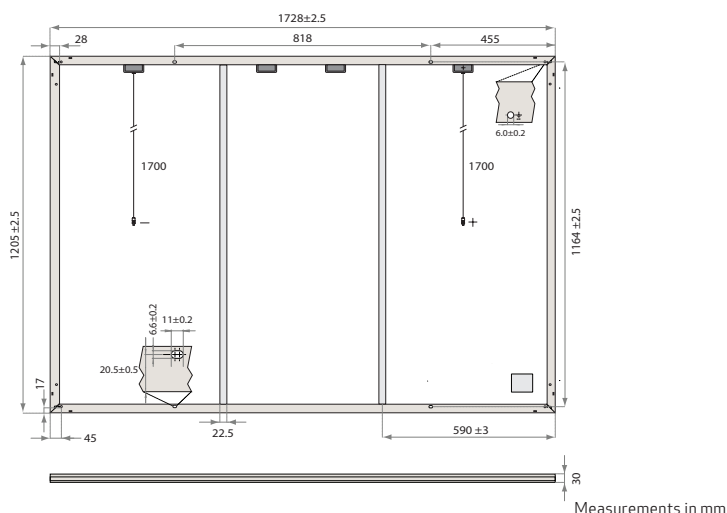
PERFORMANCE

# REC ALPHA PURE-RX SERIES

## PRODUCT SPECIFICATIONS

### GENERAL DATA

Cell type:	88 half-cut REC heterojunction cells with lead-free, gapless technology
Glass:	3.2 mm 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 (4 mm <sup>2</sup> ) in accordance with IEC 62852, IP68 only when connected
Cable:	4 mm <sup>2</sup> solar cable, 1.7 + 1.7 m in accordance with EN 50618
Dimensions:	1728 x 1205 x 30 mm (2.08 m <sup>2</sup> )
Weight:	23.2 kg
Origin:	Made in Singapore



### ELECTRICAL DATA

Product Code\*: RECxxxAA Pure-RX

Power Output - P <sub>MAX</sub> (Wp)	450
Watt Class Sorting - (W)	0/+10
Nominal Power Voltage - V <sub>MPP</sub> (V)	54.3
Nominal Power Current - I <sub>MPP</sub> (A)	8.29
Open Circuit Voltage - V <sub>OC</sub> (V)	65.1
Short Circuit Current - I <sub>SC</sub> (A)	8.81
Power Density (W/m <sup>2</sup> )	216
Panel Efficiency (%)	21.6
Power Output - P <sub>MAX</sub> (Wp)	343
Nominal Power Voltage - V <sub>MPP</sub> (V)	51.2
Nominal Power Current - I <sub>MPP</sub> (A)	6.70
Open Circuit Voltage - V <sub>OC</sub> (V)	61.3
Short Circuit Current - I <sub>SC</sub> (A)	7.11

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, windspeed 1 m/s). \* Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

### MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum 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)

### WARRANTY

	Standard	REC ProTrust
Installed by an REC Certified Solar Professional	No	Yes
System Size	All	≤25 kW 25-500 kW
Product Warranty (yrs)	20	25
Power Warranty (yrs)	25	25
Labor Warranty (yrs)	0	25
Power in Year 1	98%	98%
Annual Degradation	0.25%	0.25%
Power in Year 25	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.

### CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, 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
IEC 61730-2:2016	Fire Class C (as per UL 790)
ISO 14001, ISO 9001, IEC 45001, IEC 62941	



### 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)

### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:

