

SOLAR'S MOST TRUSTED



# REC ALPHA PURE-R SERIES Q2

## PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A MODULE CURRENT  
COMPATIBLE WITH MLPE

400 WP  
19.3  $\frac{W}{FT^2}$   
20.7% EFFICIENCY



LEAD-FREE  
ROHS COMPLIANT

EXPERIENCE  
 $\alpha$   
PERFORMANCE

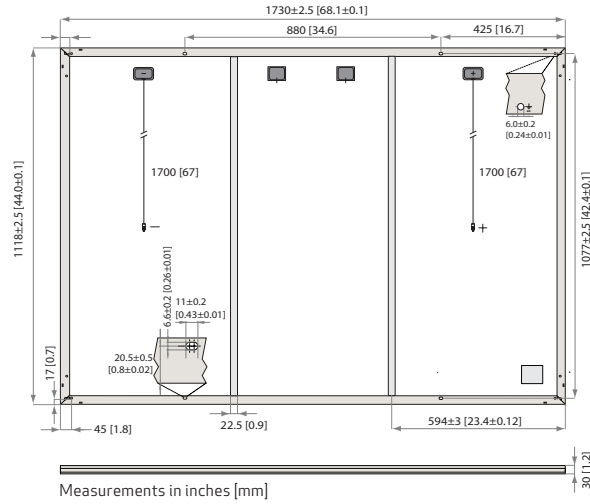


# REC ALPHA PURE-R SERIES Q2

## PRODUCT SPECIFICATIONS

### GENERAL DATA

Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology
Glass:	0.13in(3.2mm)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, 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 (4 mm <sup>2</sup> ) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN 50618
Dimensions:	68.1 x 44.0 x 1.2 in (20.77 ft <sup>2</sup> ) / 1730 x 1118 x 30 mm (1.93 m <sup>2</sup> )
Weight:	47.4 lbs (21.5 kg)
Origin:	Made in Singapore



### ELECTRICAL DATA

Product Code\*: RECxxxAA PURE-R

Power Output - P <sub>MAX</sub> (Wp)	400
Watt Class Sorting - (W)	0/+30
Nominal Power Voltage - V <sub>MPP</sub> (V)	48.8
Nominal Power Current - I <sub>MPP</sub> (A)	8.20
Open Circuit Voltage - V <sub>OC</sub> (V)	58.9
Short Circuit Current - I <sub>SC</sub> (A)	8.73
Power Density (W/ft <sup>2</sup> )	19.3
Panel Efficiency (%)	20.7
Power Output - P <sub>MAX</sub> (Wp)	305
Nominal Power Voltage - V <sub>MPP</sub> (V)	46.0
Nominal Power Current - I <sub>MPP</sub> (A)	6.64
Open Circuit Voltage - V <sub>OC</sub> (V)	55.5
Short Circuit Current - I <sub>SC</sub> (A)	7.05

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (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 ... +85°C
System voltage:	1000 V
Test load (front):	+ 7000 Pa (146 lbs/ft <sup>2</sup> )*
Test load (rear):	- 4000 Pa (83.5 lbs/ft <sup>2</sup> )*
Series fuse rating:	25 A
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	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%

See warranty documents for details. Conditions apply

### CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type Class 2
IEC 62782	Dynamic Mechanical Load
IEC 61215-2:2016	Hailstone (35mm)
IEC 62321	Lead-free acc. to RoHS EU 863/2015
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> :	-0.26 %/°C
Temperature coefficient of V <sub>OC</sub> :	-0.24 %/°C
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°C

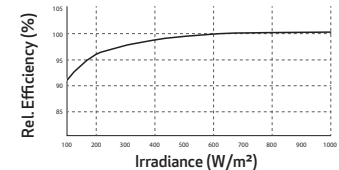
\*The temperature coefficients stated are linear values

### DELIVERY INFORMATION

Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)
Panels per 53 ft truck:	858 (26 pallets)

### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Available from: