SOLAR'S MOST TRUSTED



# REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A PANEL CURRENT COMPATIBLE WITH MLPE

430 WP 223 <sup>W</sup>/M<sup>2</sup>





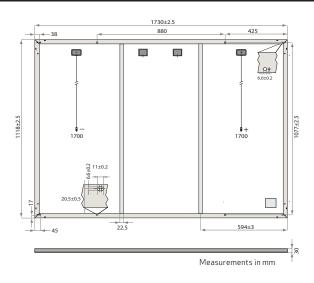


## REC ALPHA PURE-R SERIES

### PRODUCT SPECIFICATIONS



GENERAL DA	ATA
Cell type:	80 half-cut REC heterojunction cells with lead-free, 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, lead-free IP68 rated, in accordance with IEC 62790
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm²) in accordance with IEC 62852, IP68 only when connected
Cable:	4 mm² solar cable, 1.7 + 1.7 m in accordance with EN 50618
Dimensions:	$1730 \times 1118 \times 30 \text{ mm} (1.93 \text{ m}^2)$
Weight:	21.5 kg
Origin:	Made in Singapore



ELECTRICAL DATA		Product Code*: R	ECxxxAA Pure-R	
Power Output - P <sub>MAX</sub> (Wp)	400	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V <sub>MPP</sub> (V)	48.8	49.4	50.0	50.5
Nominal Power Current - I <sub>MPP</sub> (A)	8.20	8.30	8.40	8.52
Open Circuit Voltage - V <sub>oc</sub> (V)	58.9	59.2	59.4	59.7
Short Circuit Current - I <sub>sc</sub> (A)	8.73	8.81	8.89	8.97
Power Density (W/m²)	207	212	218	223
Panel Efficiency (%)	20.7	21.2	21.8	22.3
Power Output - P <sub>MAX</sub> (Wp)	305	312	320	327
Nominal Power Voltage - V <sub>MPP</sub> (V)	46.0	46.6	47.1	47.6
Nominal Power Current - I <sub>MPP</sub> (A)	6.64	6.70	6.78	6.88
Open Circuit Voltage - V <sub>oc</sub> (V)	55.5	55.8	56.0	56.3
Short Circuit Current - I <sub>sc</sub> (A)	7.05	7.12	7.18	7.24
Values at standard test conditions (STC air mass $\Delta M15$ irradiance $1000 \text{ W/m}^2$ temperature $25^\circ$ C) based on a production spread with a				

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  $P_{MAX}$ ,  $V_{0c}$  &  $I_{Sc}$  ±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 ( $P_{MAX}$ ) at STC above.

#### MAXIMUM RATINGS

STC

NMOT

Operational temperature:	-40+85°C	
System voltage:	1000 V	
Test load (front):	+ 7000 Pa (713 kg/m²)*	
Test load (rear):	- 4000 Pa (407 kg/m²)*	
Series fuse rating:	25 A	
Reverse current:	25 A	
*See installation manual for mounting instruction		

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 docu	ments for d	etails. Cor	nditions apply

#### 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
ISO 14001, ISO 9001, I	EC 45001, IEC 62941

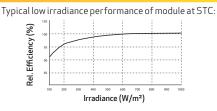


TEMPERATURE RATINGS*		
Nominal Module Operating Temperature:	44°C (±2°C)	
Temperature coefficient of $P_{_{MAX}}\!\!:$	-0.26 %/°C	
Temperature coefficient of $V_{oc}:$	-0.24 %/°C	
Temperature coefficient of I <sub>sc</sub> :	0.04 %/°C	
°The temperature coefficients stated are linear values		

#### DELIVERY INFORMATION Panels per pallet:

ralleis pei pallet.	55
Panels per 40 ft GP/high cube container:	858 (26 pallets)

#### LOW LIGHT BEHAVIOUR



Available from:



DMS Energy 56 Sheffield Rd Spreyton TAS 7310 1300 502 599 info@dmsolutions.net.au www.dmsenergy.net.au



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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