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>





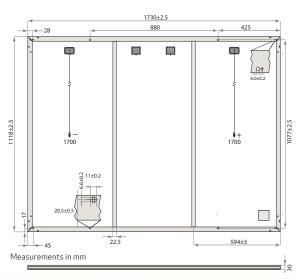
EXPERIENCE

# REC ALPHA PURE-R SERIES

# PRODUCT SPECIFICATIONS



GENERAL DA	ATA
Cell type:	80 half-cut REC bifacial, 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 mm <sup>2</sup> ) 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



	Product Code*: R	ECxxxAA Pure	·R
400	410	420	430
0/+10	0/+10	0/+10	0/+10
48.8	49.4	50.0	50.5
8.20	8.30	8.40	8.52
58.9	59.2	59.4	59.7
8.80	8.84	8.88	8.91
207	212	218	223
20.7	21.2	21.8	22.3
305	312	320	327
46.0	46.6	47.1	47.6
6.64	6.70	6.80	6.88
55.5	55.8	56.0	56.3
7.11	7.16	7.20	7.24
	0/+10 48.8 8.20 58.9 8.80 207 20.7 20.7 305 46.0 6.64 55.5	400 410   0/+10 0/+10   48.8 49.4   8.20 8.30   58.9 59.2   8.80 8.84   207 212   20.7 21.2   305 312   46.0 46.6   6.64 6.70   55.5 55.8	0/+10 0/+10   0/+10 0/+10   48.8 49.4 50.0   8.20 8.30 8.40   58.9 59.2 59.4   8.80 8.84 8.88   207 212 218   20.7 21.2 21.8   305 312 320   46.0 46.6 47.1   6.64 6.70 6.80   55.5 55.8 56.0

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  $P_{MXV}$ ,  $V_{CC} \& I_{SC} \pm 3\%$  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 ( $P_{MXV}$ ) at STC above.

#### **MAXIMUM RATINGS**

STC

NMOT

Operational temperature:	-40+85°C
System voltage:	1000 V
Test load (front):	+ 7000 Pa (713 kg/m²) <sup>*</sup>
Test load (rear):	- 4000 Pa (407 kg/m²)
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%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.

#### Available from:

#### 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	C62782 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 UL790)			
ISO 14001, ISO 9001, IEC 45001, IEC 62941			
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Living Building Challenge Complian





# Declare

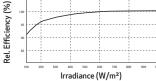
TEMPERATURE RATINGS*		
Nominal Module Operating Temperature:	44°C(±2°C)	
Temperature coefficient of $P_{_{MAX}}\!\!:$	-0.24 %/°C	
Temperature coefficient of $V_{oc}$ :	-0.24 %/°C	
Temperature coefficient of I <sub>sc</sub> :	0.04%/°C	
<sup>•</sup> The temperature coefficients stated are linear values		

# **DELIVERY INFORMATION**

Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)
Panels per 13.6 m truck:	924 (28 pallets)

#### LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:





 $Founded \ in 1996, {\sf REC}\ Group \ is \ an international \ pioneering \ solar \ energy \ company \ dedicated \ to \ empowering \ consumers$ 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.