SOLAR'S MOST TRUSTED



REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A PANEL CURRENT COMPATIBLE WITH MLPE

430 WP 223 ^W/M²





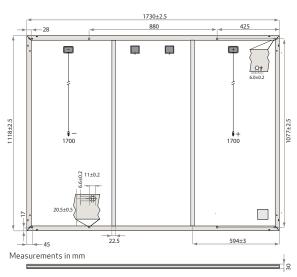
EXPERIENCE

REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS



GENERAL DATA 80 half-cut REC heterojunction cells with Cell type: lead-free, gapless technology 3.2 mm solar glass with anti-reflective surface treatment Glass: in accordance with EN 12150 Backsheet: Highly resistant polymer (black) Frame: Anodized aluminum (black) 4-part, 4 bypass diodes, lead-free Junction box IP68 rated, in accordance with IEC 62790 Stäubli MC4 PV-KBT4/KST4 (4 mm²) Connectors. in accordance with IEC 62852, IP68 only when connected 4 mm² solar cable, 1.7 + 1.7 m Cable: in accordance with EN 50618 Dimensions 1730 x 1118 x 30 mm (1.93 m²) Weight: 21.5 kg



CERTIFICATIONS

IEC 62804

IEC 61701

IEC 62716 ISO 11925-2

IEC 62782

IEC 62321

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IEC 61215-2:2016

IEC 61730-2:2016

ED.

TEMPERATURE RATINGS Nominal Module Operating Temperature:

Temperature coefficient of P_{MAX}:

Temperature coefficient of V_{oc} :

Temperature coefficient of I_{sc}:

IEC 61215:2016, IEC 61730:2016, UL 61730

ISO 14001, ISO 9001, IEC 45001, IEC 62941

E

PID

Salt Mist

Ammonia Resistance

Hailstone (35mm)

Dynamic Mechanical Load

Fire Class C (as per UL790)

07

°The temperature coefficients stated are linear values

Ignitability (EN 13501-1 Class E)

Lead-free acc. to RoHS EU 863/2015

take 🥯way

take-e-way WEEE-compliant recycling scheme

44°C(±2°C)

-0.24 %/°C

-0.24 %/°C

0.04 %/°C

ELECTRICAL DATA	Product Code*: RECxxxAA Pure-R			
Power Output - P _{MAX} (Wp)	400	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	48.8	49.4	50.0	50.5
Nominal Power Current - I _{MPP} (A)	8.20	8.30	8.40	8.52
Open Circuit Voltage - V _{oc} (V)	58.9	59.2	59.4	59.7
Short Circuit Current - I _{sc} (A)	8.80	8.84	8.88	8.91
Power Density (W/m²)	207	212	218	223
Panel Efficiency (%)	20.7	21.2	21.8	22.3
Power Output - P _{MAX} (Wp)	305	312	320	327
Nominal Power Voltage - V _{MPP} (V)	46.0	46.6	47.1	47.6
Nominal Power Current - I _{MPP} (A)	6.64	6.70	6.80	6.88
Open Circuit Voltage - V _{oc} (V)	55.5	55.8	56.0	56.3
Short Circuit Current - I _{sc} (A)	7.11	7.16	7.20	7.24
Values at standard test conditions (STC) air mass AM15 irradiance 1000 W/m² temperature 25°C) based on a production spread with a				

Made in Singapore

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAX} , V_{nc} & $I_{sc} \pm 3\%$ within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). * Where xxx indicates the nominal power class (P_{max}) at STC above.

MAXIMUM RATINGS

Origin:

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 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%

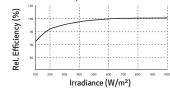
The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details

Available from:

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, 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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