SOLAR'S MOST TRUSTED



REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A PANEL CURRENT COMPATIBLE WITH MLPE

410 WP 223 ^W/M²





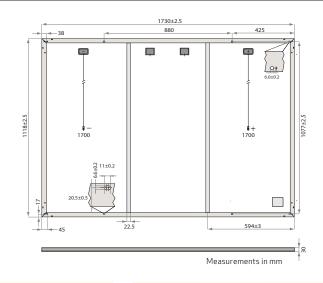


REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS

GENERAL DATA





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 mm ²) 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:	$1730x1118x30mm$ (1.93 m^2)
Weight:	21.5 kg
Origin:	Made in Singapore

ELECTRICAL DATA	Product Cod	e*: RECxxxAA Pure	e-R
Power Output - P _{MAX} (Wp)	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10
Nominal Power Voltage - $V_{MPP}(V)$	49.4	50.0	50.5
Nominal Power Current - I _{MPP} (A)	8.30	8.40	8.52
Open Circuit Voltage - $V_{oc}(V)$	59.2	59.4	59.7
Short Circuit Current - I _{sc} (A)	8.81	8.89	8.97
Power Density (W/m²)	212	218	223W
Panel Efficiency (%)	21.2	21.8	22.3
Power Output - P _{MAX} (Wp)	312	320	327
Nominal Power Voltage - $V_{_{MPP}}(V)$	46.6	47.1	47.6
Nominal Power Current - I _{MPP} (A)	6.70	6.78	6.88
Open Circuit Voltage - $V_{oc}(V)$	55.8	56.0	56.3
Short Circuit Current - I _{sc} (A)	7.12	7.18	7.24
	E		

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

-40...+85°C

1000 V

MAXIMUM RATINGS Operational temperature: System voltage: To the U(south)

"See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)		
Reverse current:	25 A	
Series fuse rating:	25 A	
Test load (rear):	- 4000 Pa (407 kg/m²)*	
Test load (front):	+ 7000 Pa (713 kg/m²)*	
7		

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 (PENDING)

IEC 61215:2016, IEC 61730:2016, UL 61730		
IEC 62804	PID	
IEC 61701	Salt Mist	
IEC 62716	Ammonia Resistance	
ISO 11925-2	lgnitability (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, IEC 45001, IEC 62941		
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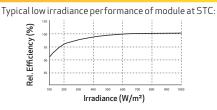


TEMPERATURE RATINGS*		
Nominal Module Operating Temperature:	44°C (±2°C)	
Temperature coefficient of $P_{_{MAX}}$:	-0.26 %/°C	
Temperature coefficient of V_{oC} :	-0.24 %/°C	
Temperature coefficient of I _{sc} :	0.04 %/°C	
*The temperature coefficients stated are linear values		

DELIVERY INFORMATION Panels per pallet: 33

Panels per 40 ft GP/high cube container:	858 (26 pallets)

LOW LIGHT BEHAVIOUR





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.

STC