

REC ALPHX® PURE-RX SERIES

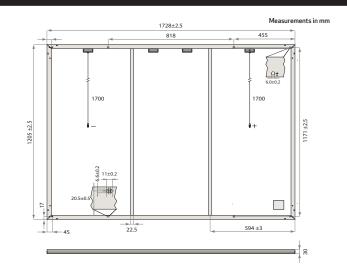


REC ALPHα® PURE-RX SERIES

DATASHEET



GENERAL DATA	
Cell Type	88 half-cut bifacial 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	$St\"{a}ubliMC4PV-KBT4/KST4(4mm^2)\\inaccordancewithIEC62852, IP68onlywhenconnected$
Cable	4mm^2 solar cable, $1.7\text{m}+1.7\text{m}$ in accordance with EN50618
Dimensions	$1728 \times 1205 \times 30 \text{ mm} (2.08 \text{ m}^2)$
Weight	23.4 kg
Origin	Made in Singapore



ELECTRICAL DATA	PRODUCT CODE*: RECxxxAA Pure-RX				
Power Output - P _{MAX} (W _P)	450	455	460	465	470
Watt Class Sorting - (W)	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Nominal Power Voltage - $V_{MPP}(V)$	54.3	54.6	54.9	55.2	55.4
Nominal Power Current - I _{MPP} (A)	8.29	8.34	8.38	8.43	8.49
Open Circuit Voltage - V_{OC} (V)	65.1	65.2	65.3	65.5	65.6
Short Circuit Current - I_{SC} (A)	8.81	8.84	8.88	8.91	8.95
Power Density (W/m²)	216	219	221	224	226
Panel Efficiency (%)	21.6	21.9	22.1	22.3	22.6
Power Output - Pmax (W _P)	343	346	350	354	358
Nominal Power Voltage - V_{MPP} (V)	51.2	51.4	51.7	52.0	52.2
Nominal Power Current - I _{MPP} (A)	6.70	6.73	6.77	6.81	6.86
Open Circuit Voltage - V_{OC} (V)	61.3	61.5	61.6	61.7	61.8
Short Circuit Current - I _{sc} (A)	7.11	7.14	7.17	7.2	7.23

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAXV} V_{OC} & I_{SC} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxx indicates the nominal power class (P_{MAXV}) at STC above.

MAXIMUM RATINGS	
Operational Temperature	-40 °C - 85 °C
System Voltage	1000 V
Maximum Test Load (front)	+7000 Pa (713 kg/m²)
Maximum Test Load (rear)	-4000 Pa (407 kg/m²)
Max Series Fuse Rating	25 A
Max Reverse Current	25 A
	 16

*See installation manual for mounting instructions.

Design load = Test load / 1.5 (safety factor)

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

0.04%/°C

Temperature coefficient of I_{SC} *The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per Pallet	33
Panels per 40 ft GP/high cube container	594 (18 Pallets)
Panels per 13.6 m truck	660 (20 Pallets)

CERTIFICATIONS		
IEC 61215:2021; IEC61730:2016; UL61730		
ISO 11925-2	Ignitability (EN 13501-1 Class E)	
IEC 62716	Ammonia Resistance	
IEC 61701	Salt Mist (SM6)	
IEC 61215:2016	Hailstone (35 mm)	
UL 61730	Fire Type 2	
IEC 62321	Lead-free acc. to RoHS EU 863/2015	
ISO 14001; ISO9001; IEC45001; IEC62941		









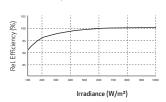


WARRANTT			
	Standard	REC Pr	oTrust
Installed by an REC Certified Professional	No	Yes	Yes
System Size	All	<25 kW	25-500 kW
Product Warranty (yrs)	20	25	25
Power Warranty (yrs)	25	25	25
Labor Warranty (yrs)	0	25	10
Power in Year 1	98%	98%	98%
Annual Degradation	0.25%	0.25%	0.25%
Power in Year 25	92%	92%	92%
The REC ProTrust Warranty is only available on panels purchased			

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

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Available from:

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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