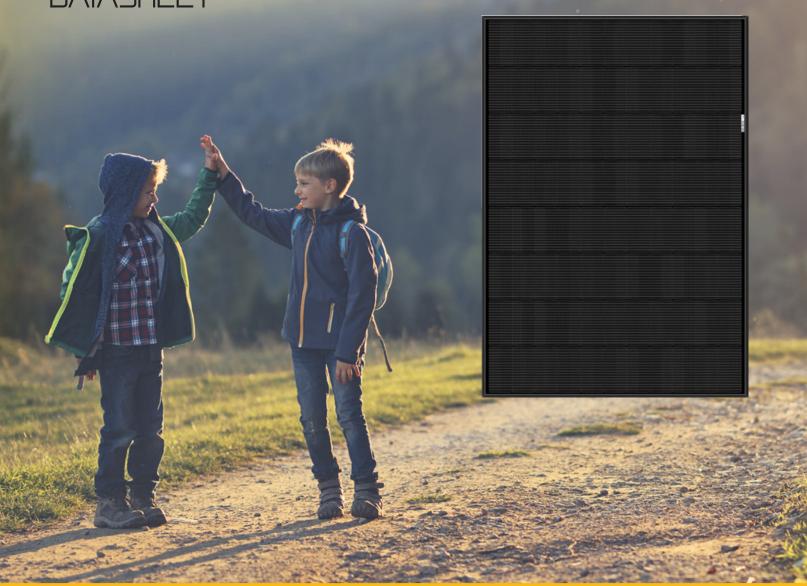
SOLAR'S MOST TRUSTED



REC ALPHA® PURE-RX

DATASHEET



450 - 470W HETEROJUNCTION TECHNOLOGY 22.6% MAX EFFICIENCY

>92% POWER IN YEAR 25

-0.24%/°C TEMPERATURE COEFFICIENT OF PMAX



ELIGIBLE

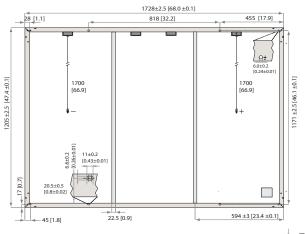
REC ALPHA® PURE-RX DATASHEET



Measurements in [inches] and mm

Specifications subject to change without notice.

GENERAL D	ATA
Cell Type	88 half-cut bifacial REC heterojunction cells,
	with gapless technology
Glass	0.13 in 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,
	IP68 rated, in accordance with IEC 62790:2020
Connectors	Stäubli MC4 PV-KBT4/KST4 (12 AWG)
	in accordance with IEC 62852:2014, IP68 only when connected
Cable	12 AWG solar cable, 66.9 in (1.70 m) + 66.9 in (1.70 m)
	in accordance with EN50618:2014
Dimensions	$68.0 \times 47.4 \times 1.2 \text{ in } (22.4 \text{ ft}^2) / 1728 \times 1205 \times 30 \text{ mm} (2.08 \text{ m}^2)$
Weight	50.0 lb / 22.7 kg
Origin	Made in Singapore



ELECTRICAL DATA	PR	ODUCT CODE*: RECXXXAA PU	RE-RX
Power Output - P _{MAX} (WP)	450	460	470
Watt Class Sorting - (W)	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	54.3	54.9	55.4
Nominal Power Current - I _{MPP} (A)	8.29	8.38	8.49
Open Circuit Voltage - V _{oc} (V)	65.6	65.8	65.9
Short Circuit Current - $I_{SC}(A)$	8.81	8.88	8.95
Power Density (W/ft²)	20.1	20.5	21.0
Panel Efficiency (%)	21.6	22.1	22.6
Power Output - $P_{MAX}(W_p)$	343	350	358
Nominal Power Voltage - V_{MPP} (V)	51.2	51.7	52.2
Nominal Power Current - I _{MPP} (A)	6.70	6.77	6.86
Open Circuit Voltage - V _{oc} (V)	61.8	62.0	62.1

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_{MAXV} V_{DC} & I_{DC} $\pm 3\%$ 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 xxxx indicates the nominal power class (P_{MAXV}) at STC above.

TEMPERATURE COEFFICIENT*

V_{oc} -0.24%/°C P_{MAX} -0.24%/°C

I_{sc} 0.04%/°C

*The temperature coefficients stated are linear values

MODULE RATINGS

NMOT

Module Operating Temperature [TS	98] \$ 158°F (70°C)
Min Environmental Temperature	-40°F (-40°C)
Nominal Module Operating Temper	rature 44 ± 2°C
Max Hail Rating ^o	45 mm @ 30.5 m/s
System Voltage	1000 V
Max Series Fuse Rating	25 A
Max Reverse Current	25 A
	§ 98th percentile operating temperature □Based on third party testing

MAXIMUM TEST LOAD*

Front (4-Point)*	+7000 Pa (1.02 lbs/in²)		
Rear (4-Point)*	-4000 Pa (0.58 lbs/in²)		
Front (6-Point)***	+8000 Pa (1.16 lbs/in²)		
Rear (6-Point)**	-6000 Pa (0.87 lbs/in²)		
Docide load - Tost load /15 (cafety factor)			

^{*}IEC61730/UL61730 certified. Refer to installation manual. *Internal testing. Refer to installation manual.

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.

CERTIFICATIONS

ISO 14001; ISO9001; IEC45001; IEC62941 IEC 61215:2021;IEC 61730:2023;UL 61730 ISO 11925-2 Ignitability (EN 13501-1 Class E) IEC 62716 Ammonia Resistance IEC 61701 Salt Mist (SM6) IEC 61215:2016 Hailstone (35mm) UL 61730 Fire Type 2









WARRANTY					
	Standard	REC ProTrust			
Installed by an REC	No	Yes	Yes		
Certified Professional					
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%		

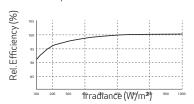
REC ProTrust Warranty applies only for i) REC panels installed by an REC Certified Solar Professional, and ii) panels have been registered by the installer with REC. Subject to System Size and further conditions. See www.recgroup.com for details.

DELIVERY INFORMATION

Panels per Pallet	33
Panels per 40 ft GP/high cube container	594 (18 Pallets)
Panels per 53 ft truck	792 (24 Pallets)

LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC:



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