SOLAR'S MOST TRUSTED



REC ALPHA® PURE-RX



450 - 470W HETEROJUNCTION TECHNOLOGY

226 WM2 POWER DENSITY

>92% POWER IN YEAR 25

-0.24%/°C TEMPERATURE COEFFICIENT OF PMAX



REC ALPHA® PURE-RX DATASHEET

GENERAL DATA

Connectors

Cable



Cell Type	88 half-cut bifacial REC heterojunction cells,
	with 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,

4-part, 4 bypass diodes, IP68 rated, in accordance with IEC 62790:2020Stäubli MC4 PV-KBT4/KST4 (4 mm²)

in accordance with IEC 62852:2014, IP68 only when connected 4 mm² solar cable, 1.70 m + 1.70 m

in accordance with EN50618:2014 Dimensions 1728 x 1205 x 30 mm (2.08 m²) Weight 22.7 kg

Made in Singapore Origin

Measurements in mm [in] 1728±2.5 [68.0 ±0.1] 28 [1.1] 818 [32.2] 455 [17.9] Ω± [47.4±0.1] 1700 1700 ±2.5 [46.1 1205 ±2.5 594 ±3 [23.4 ±0.1] 22.5 [0.9] 45 [1.8]

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ELECTRICAL DATA	PRO	DUCT CODE*: RECXXXAA PURE	E-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/m²)	216	221	226
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_{MMV} , V_{CC} & I_{CC} ± 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.....) at STC above

TEMPERATURE COEFFICIENTS*

P_{MAX} -0.24%/°C

Available from:

V_{oc} -0.24%/°C

I_{sc} 0.04%/°C

*The temperature coefficients stated are linear values

MODULE RATINGS Module Operating Temperature [T98]§ 80°C Min Environmental Temperature -40°C Nominal Module Operating Temperature 44 ± 2°C Max Hail Rating 45 mm @ 30.5 m/s System Voltage 1000 V Max Series Fuse Rating 25 A Max Reverse Current 25 A

9 98th percentile operating temperature "Based on third party testing

MAXIMUM TEST LOAD*

Front (4-Point)* +7000 Pa (714 Kg/m²) Rear (4-Point)* -4000 Pa (408 Kg/m²) Front (6-Point)** +8000 Pa (816 Kg/m²) Rear (6-Point)** -6000 Pa (612 Kg/m²)

Design load = Test load / 1.5 (safety factor)

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

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 (35 mm) UL 61730 Fire Type 2 IECTS 63126 Level1











specifications subject to change without notice

Take-e-way WEEE-compliant scheme

VARRANTI	
etalled by an REC	

	Standard	REC	ProTrust	
nstalled 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%	

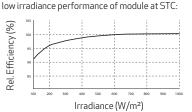
REC ProTrust Warranty applies only for i) REC panels installed by an REC Certified Solar Professional, and ii) panels have been registered by the installer with REC Subject to System Size and further conditions. See www.recgroup.com for details

DELIVERY INFORMATION

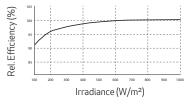
Panels per Pallet	33
Panels per 40 ft GP/high cube container	594 (18 Pallets)
Panels per 13.6 m truck	660 (20 Pallets)

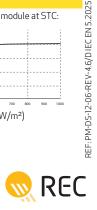
LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



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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