SOLAR'S MOST TRUSTED

REC

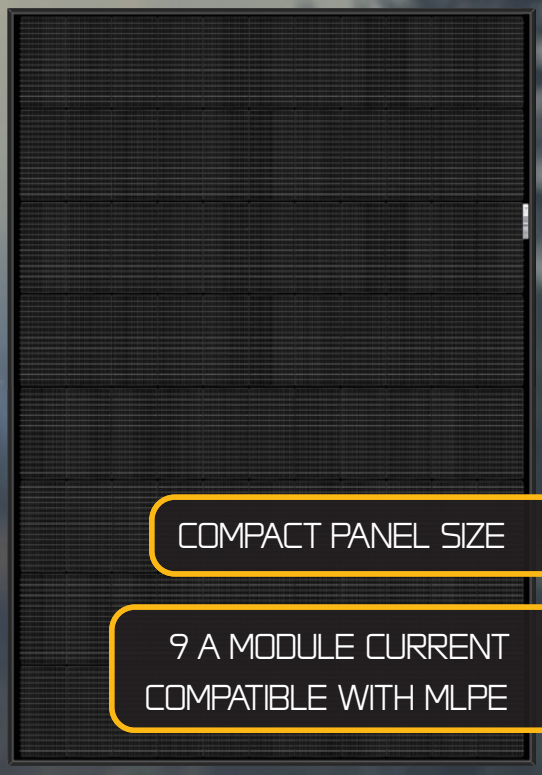
REC ALPHα®
PURE-RX SERIES

DATASHEET

470 Wp

22.6% EFFICIENCY

226 W/M²



COMPACT PANEL SIZE

9 A MODULE CURRENT
COMPATIBLE WITH MLPE

PRODUCT
REC 25 YEAR ProTrust WARRANTY
LABOR
PERFORMANCE

ELIGIBLE

LEAD-FREE
ROHS COMPLIANT

EXPERIENCE
α
PERFORMANCE

REC ALPHα® PURE-RX SERIES

DATASHEET

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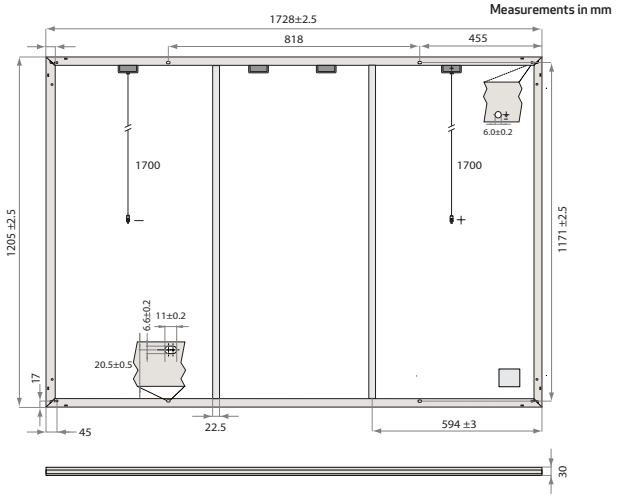
GENERAL DATA

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	Stäubli MC4 PV-KBT4/KST4 (4 mm²) in accordance with IEC 62852, IP68 only when connected
Cable	4 mm² solar cable, 1.7 m + 1.7 m in accordance with EN50618
Dimensions	1728 x 1205 x 30 mm (2.08 m²)
Weight	23.4 kg
Origin	Made in Singapore

Measurements in mm



ELECTRICAL DATA

PRODUCT CODE*: RECxxxAA Pure-RX

STC					
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
NMOT					
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 AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAX}, V_{OC} & I_{SC} ±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

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

* 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
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	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	

Intertek
Lead-Free
take e-way for an easy way
Take-e-way WEEE-compliant scheme
Living building challenge compliant

Declare.

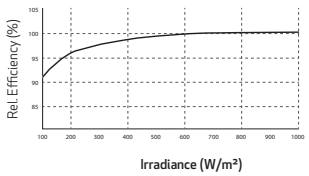
WARRANTY

	Standard	REC ProTrust	
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 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:



Specifications subject to change without notice.

Ref: PM-DS-12-06-Rev-4.2 3.2024

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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