

SOLAR'S MOST TRUSTED

REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

9 A MODULE CURRENT COMPATIBLE WITH MLPE

430 WP 20.7 ^{W/}FT² 22.3% EFFICIENCY



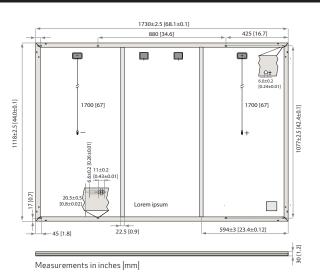




REC ALPHA PURE-R SERIES PRODUCT SPECIFICATIONS



GENERAL D	ATA
Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology
Glass:	$0.13 \text{ in (3.2 mm) solar glass with anti-reflective surface treatment} \\ \text{ in accordance with EN 12150}$
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 (12 AWG) in accordance with IEC 62852, IP68 only when connected
Cable:	12 AWG (4 mm²) PV wire, 67 + 67 in (1.7 + 1.7 m) in accordance with EN 50618
Dimensions:	$68.1 \times 44.0 \times 1.2 \text{ in } (20.77 \text{ ft}^2) / 1730 \times 1118 \times 30 \text{ mm} (1.93 \text{ m}^2)$
Weight:	47.4 lbs (21.5 kg)
Origin:	Made in Singapore



EL	ECTRICAL DATA		Product Code*: RI	ECxxxAA PURE-F	र
Po	wer Output - P _{MAX} (Wp)	400	410	420	430
Wa	att Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
No	ominal Power Voltage - V _{MPP} (V)	48.8	49.4	50.0	50.5
e No	ominal Power Current - I _{MPP} (A)	8.20	8.30	8.40	8.52
ob ST	oen Circuit Voltage - V _{oc} (V)	58.9	59.2	59.4	59.7
Sh	ort Circuit Current - I _{sc} (A)	8.80	8.84	8.88	8.91
Po	wer Density (W/ft²)	19.26	19.74	20.22	20.70
Pa	nel Efficiency (%)	20.7	21.2	21.8	22.3
Po	wer Output - P _{MAX} (Wp)	305	312	320	327
No	ominal Power Voltage - V _{MPP} (V)	46.0	46.6	47.1	47.6
	ominal Power Current - I _{MPP} (A)	6.64	6.70	6.80	6.88
z _{Op}	oen Circuit Voltage - V _{oc} (V)	55.5	55.8	56.0	56.3
Sh	ort Circuit Current - I _{sc} (A)	7.11	7.16	7.20	7.24

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (25°C), based on a production spread with a tolerance of P_{MWV} V_{oc} & I_{sc} ± 3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s).* Where xxx indicates the nominal power class (P_{MWV}) at STC above.

MAXIMUM RATINGS	
Operational temperature:	-40+85°C
System voltage:	1000 V
Test load (front):	+ 7000 Pa (146 lbs/ft²)*
Test load (rear):	- 4000 Pa (83.5 lbs/ft²)*
Series fuse rating:	25 A
Reverse current:	25 A
°C an installation	

See installation manual for mounting instructions. Design load = Test load / 1.5 (safet y factor)

Available from:

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 docu	ments for d	etails. Con	ditions apply

	CERTIFICATIONS	
	IEC 61215:2016, IEC 6	1730:2016, UL 61730
	IEC 62804	PID
	IEC 61701	Salt Mist
	IEC 62716	Ammonia Resistance
	UL 61730	Fire Type Class 2
	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, IE	EC 45001, IEC 62941



TEMPERATURE RATINGS*

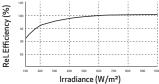
Nominal Module Operating Temperature:	44°C (±2°C)	
Temperature coefficient of $P_{_{MAX}}$:	-0.24 %/°C	
Temperature coefficient of V_{oc} :	-0.24 %/°C	
Temperature coefficient of I _{sc} :	0.04 %/°C	
*The temperature coefficients stated are linear value		

DELIVERY INFORMATION

Panels per pallet:	33
Panels per 40 ft GP/high cube container:	858 (26 pallets)
Panels per 53 ft truck:	858 (26 pallets)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:







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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