

430 20.7 22.3% EFFICIENCY

WP







REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS



GENERAL DATA				
	Cell type:	80 half-cut REC bifacial, heterojunction cells with lead-free, gapless technology		
	Glass:	$0.13 in (3.2 mm) solar glass with anti-reflective surface treatment\\in accordance with EN 12150$		
	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:	$St\"{a}ubli\ MC4\ PV-KBT4/KST4\ (12\ AWG)$ 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:	$68.1x44.0x1.2\text{in}(20.77\text{ft}^2)/1730x1118x30\text{mm}(1.93\text{m}^2)$		
	Weight:	47.4 lbs (21.5 kg)		
	Origin:	Made in Singapore		

	→	28 [1.1]	4	1730±2.5 880 [[68.1±0.1] 34.6]	<u></u>	425 [16.7]	
1118±2.5 [44,0±0.1]	17 [0.7]		00 [67]		₽	. 594±3 (2	02:02 60:02 (0.24:0.01) 1700 [67]	1077425 [42,440.1]
	E	Measurements	in inches lm	ml				30 [1.2]

ELECTRICAL DATA		Product Code*: RE	CxxxAA PURE-F	₹
Power Output - P _{MAX} (Wp)	400	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - $V_{MPP}(V)$	48.8	49.4	50.0	50.5
Nominal Power Current - I _{MPP} (A)	8.20	8.30	8.40	8.52
Open Circuit Voltage - V _{oc} (V)	58.9	59.2	59.4	59.7
$ShortCircuitCurrent-I_{SC}(A)$	8.80	8.84	8.88	8.91
Power Density (W/ft²)	19.26	19.74	20.22	20.70
Panel Efficiency (%)	20.7	21.2	21.8	22.3
Power Output - P _{MAX} (Wp)	305	312	320	327
Nominal Power Voltage - V _{MPP} (V)	46.0	46.6	47.1	47.6
Nominal Power Current - I _{MPP} (A)	6.64	6.70	6.80	6.88
Open Circuit Voltage - V _{oc} (V)	55.5	55.8	56.0	56.3
Short Circuit Current - $I_{SC}(A)$	7.11	7.16	7.20	7.24

with a tolerance of P_{MAX} , 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_{MAX}) 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

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

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%	
Soowarranty docu	monte for d	otaile Con	ditions apply	

		See warranty documents for details. Conditions	appl
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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 head quarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS	
IEC 61215:2016, IEC	61730:2016, UL 61730
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 61730	Fire Type 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,	IEC 45001, IEC 62941









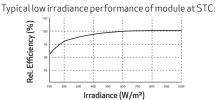
Declare.

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:	858 (26 pallets)
Panels per 53 ft truck:	858 (26 pallets)

LOW LIGHT BEHAVIOUR



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