

430 20.7 22.3% EFFICIENCY

WP







REC ALPHA PURE-R SERIES

PRODUCT SPECIFICATIONS



GENERAL DATA				
Celltype:	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			

	1730±2.5 [68.1±0.1] 880 [34.6]	425 [16.7]		
1700 [67] 1700 [67]	Lorem ipsum	1700 [67] [104+72) \$774,601		
	2.5 [0.9]	594±3 [23.4±0.12]		
Measurements in inches [mm]				

CERTIFICATIONS

ELECTRICAL DATA		Product Code*: RE	CxxxAA PURE-F	२
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
$ShortCircuitCurrent\text{-}I_{SC}(A)$	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%
See warranty docu	ments for de	etails Cor	ditions apply

IEC 61215:2016, IEC 6	1/30:2016, UL 61/30
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











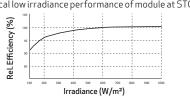
TEMPERATURE RATINGS*	
NominalModuleOperatingTemperature:	44°C (±2°C)
Temperature coefficient of $P_{MAX}\! :$	-0.24 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C

*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

Typical low irradiance performance of module at STC:



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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