SOLAR'S MOST TRUSTED



REC ALPHOX® PURE 2 SERIES

PRODUCT SPECIFICATIONS



430 WF 20.6 WFT2

22.2% EFFICIENCY





EXPERIENCE

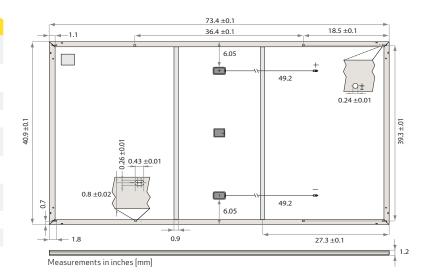
PERFORMANCE

REC ALPHA PURE 2 SERIES

PRODUCT SPECIFICATIONS



GENERAL DATA			
Cell type:	132 half-cut REC heterojunction cells with lead-free, gapless technology, 6 strings of 22 cells in series		
Glass:	0.12 in solar glass with anti-reflective surface treatment in accordance with EN 12150		
Backsheet:	Highly resistant polymer (black)		
Frame:	Anodized aluminum (black)		
Junction box:	3-part, 3 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 solar cable, 49.2 + 49.2 in in accordance with EN 50618		
Dimensions:	$73.4 \times 40.9 \times 1.2 \text{ in } (20.88 \text{ sq-ft})$		
Weight:	47.6 lbs (21.6 kg)		
Origin:	Made in Singapore		



ELECTRICAL DATA	Product Code*: RECxxxAA PURE 2			
Power Output - P _{MAX} (Wp)	400	410	420	430
Watt Class Sorting - (W)	0/+10	0/+10	0/+10	0/+10
Nominal Power Voltage - $V_{MPP}(V)$	41.1	41.6	42.2	42.8
Nominal Power Current - I _{MPP} (A)	9.74	9.86	9.96	10.05
Open Circuit Voltage - V _{oc} (V)	48.5	48.8	49.1	49.3
Short Circuit Current - $I_{SC}(A)$	10.60	10.67	10.74	10.81
Power Density (W/ft²)	19.2	19.6	20.1	20.6
Panel Efficiency (%)	20.6	21.1	21.7	22.2
Power Output - P _{MAX} (Wp)	304	312	320	327
Nominal Power Voltage - V _{MPP} (V)	38.7	39.2	39.8	40.3
Nominal Power Current - I _{MPP} (A)	7.86	7.96	8.05	8.12
Open Circuit Voltage - V _{oc} (V)	45.7	45.8	46.0	46.2
Short Circuit Current - $I_{SC}(A)$	8.50	8.62	8.68	8.73

with a tolerance of P_{MAV} V_{OC} & I_{S} ± $\frac{2}{3}$ % within one watt class. Nominal module operating temperature (NMOT: air mass $\frac{AM}{1.5}$, irradiance 800 W/m², temperature 68°F ($\frac{20}{3}$ °C), windspeed 3.3 ft/s (1 m/s).* Where xxx indicates the nominal power class (P_{MAV}) 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			

 $^\circ$ 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%
Consumerants documents for details Conditions and			

See warranty documents for details. Conditions apply

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.

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











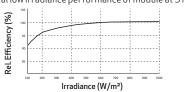
TEMPERATURE RATINGS*	
Nominal Module Operating Temperature	erature: 44°C (±2°C)
Temperature coefficient of P_{MAX}	: -0.24 %/°C
Temperature coefficient of $V_{\rm oc}$:	-0.24 %/°C
Temperature coefficient of I_{sc} :	0.04 %/°C

*The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
Papalapar 53 ft truck	959 (26 pallots)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



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