

REC ALPHX® PURE 2 SERIES

PRODUCT SPECIFICATIONS



420 WP

20.1 W_{FT2}

21.7% EFFICIENCY





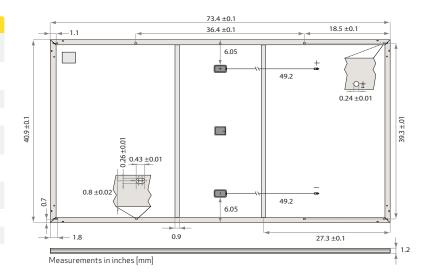


REC ALPHA PURE 2 SERIES

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		



CERTIFICATIONS

	ELECTRICAL DATA		Product Code*: RI	ECxxxAA 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
ر	Nominal Power Current - $I_{MPP}(A)$	9.74	9.86	9.96	10.05
n	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
<u> </u>	Nominal Power Current - $I_{MPP}(A)$	7.86	7.96	8.05	8.12
Z	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 $\frac{A}{M}$ 1.5, irradiance 800 W/m², temperature 68°F ($\frac{20}{C}$ 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
*C	

*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%
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See warranty documents for details. Conditions apply

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, I	EC 45001, IEC 62941
^	



IEC 61215:2016, IEC 61730:2016, UL 61730









TEMPERATURE RATINGS*

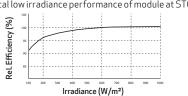
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of $\boldsymbol{P}_{\text{MAX}}\!\!:$	-0.24 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of Las:	0.04 %/°C

*The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
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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