

REC ALPHX® PURE 2 SERIES

PRODUCT SPECIFICATIONS



420 WP

20.1 W_{FT2}

21.7% EFFICIENCY





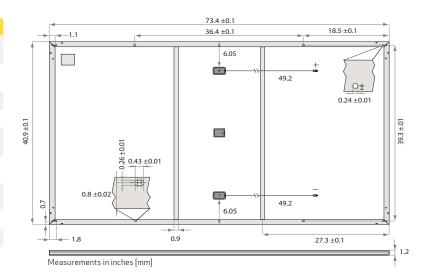


REC ALPHA PURE 2 SERIES

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*: 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
$ShortCircuitCurrent\text{-}I_{SC}(A)$	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_{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
*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%
C			Jorgan Land

See warranty documents for details. Conditions apply

IEC 01213:2010, IEC 0	1730:2010, OL 01730
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-freeacc.toRoHSEU863/2015
ISO 14001, ISO 9001, IE	EC 45001, IEC 62941



IEC 61215,2016 IEC 61730,2016 I II 61730









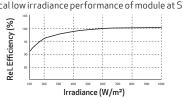
TEMPERATURE RATINGS*	
Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of $P_{MAX}\!:$	-0.24 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C

*The temperature coefficients stated are linear values

DELIVERY INFORMATION	
Panels per pallet:	33
Panels per 40 ft GP/high cube container:	792 (24 pallets)
Panels per 53 ft truck:	858 (26 pallets)

LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Available from:

