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WINNER



REC ALPHA® PURE SERIES

DATASHEET

410 WP 20.6 W/FT²





EXPERIENCE PERFORMANCE

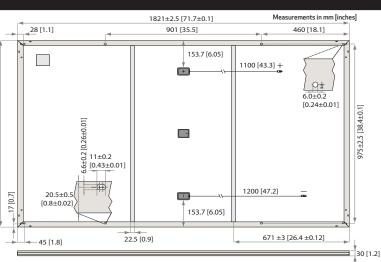
COMPACT PANEL SIZE

REC ALPHA® PURE SERIES



DATASHEET

GENERAL DATA		
Cell Type	132 half-cut bifacial REC heterojunction cells, with lead-free technology	
Glass	0.13 in solar glass with anti-reflective surface treatment in accordance with EN12150	
Backsheet	Highly resistant polymer (Black)	
Frame	Anodized aluminum (Black)	101
Junction Box	3-part, 3 bypass diodes, lead-free IP68 rated, in accordance with IEC 62790	1016+2 5 [40 +0 1
Connectors	Stäubli MC4 PV-KBT4/KST4 (12AWG) in accordance with IEC 62852, IP68 only when connected	1016
Cable	12 AWG solar cable, 43.3 in + 47.2 in in accordance with EN50618	
Dimensions	71.7 x 40 x 1.2 in (19.9 ft ²)	
Weight	45.2 lb	
Origin	Made in Singapore	



ELECTRICAL DATA	PRODUCT CODE*: RECxxxAA Pure				
Power Output - P _{max} (W _P)	390	395	400	405	410
Watt Class Sorting - (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Nominal Power Voltage - V _{MPP(} V)	40.6	41.0	41.4	41.8	42.2
Nominal Power Current - I _{MPP} (A)	9.61	9.64	9.67	9.69	9.72
Open Circuit Voltage - V _{oc} (V)	48.4	48.6	48.8	49.1	49.4
Short Circuit Current - I _{sc} (A)	10.38	10.39	10.40	10.41	10.42
Power Density (W/ft²)	19.6	19.8	20.1	20.4	20.6
Panel Efficiency (%)	21.1	21.4	21.6	21.9	22.2
Power Output - P _{max} (W _P)	297	301	305	308	312
Nominal Power Voltage - V _{MPP} (V)	38.3	38.6	39.0	39.4	39.8
Nominal Power Current - I _{MPP} (A)	7.77	7.79	7.82	7.83	7.85
Open Circuit Voltage - V _{oc} (V)	45.6	45.8	46.0	46.3	46.6
Short Circuit Current - I _{sc} (A)	8.38	8.39	8.40	8.41	8.42

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m², temperature 77°F (25°C)), based on a production spread with a tolerance of P_{MXX}, V_{DC} & I_{ac} ±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_{MXX}) at STC above.

MAXIMUM RATINGS

STC

NMOT

Operational Temperature	-40 °F - 185 °F
System Voltage	1000 V
Maximum Test Load (front)	+7000 Pa (146 lb/ft²)
Maximum Test Load (rear)	-4000 Pa (83.4 lb/ft²)
Max Series Fuse Rating	25 A
Max Reverse Current	25 A
	* See installation manual for mounting instructions. Design load = Test load / 1.5 (safety factor)

TEMPERATURE RATINGS*

Nominal Module Operating Temperature	44°C±2°C
Temperature coefficient of P _{max}	-0.24%/K
Temperature coefficient of V _{oc}	-0.24%/K
Temperature coefficient of I _{sc}	0.04%/K
*The temperature coefficients stated are linear values	

DELIVERY INFORMATION	
Panels per Pallet	33
Panels per 40 ft GP/high cube container	792 (24 Pallets)

CERTIFICATIONS IEC 61215:2016; IEC61730:2016; UL61730 IEC 62804 PID IEC 62782 Dynamic Mechanical Load ISO 11925-2 Ignitability (EN 13501-1 Class E) IEC 62716 Ammonia Resistance IEC 61701 Salt Mist (SM6) IEC 61215:2016 Hailstone (35mm) UL 61730 Fire Type 2 IEC 62321 Lead-free acc. to RoHS EU 863/2015

ISO 14001; ISO9001; IEC45001; IEC62941



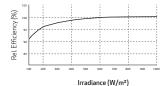
Declare.

WARRANTY

	Standard	d REC ProTrust		
Installed by an REC Certified 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	4
Power in Year 1	98%	98%	98%	202
Annual Degradation	0.25%	0.25%	0.25%	О Э.
Power in Year 25	92%	92%	92%	ev-1
The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup. com for more details				
LOW LIGHT BEHAVIO	R			Ref: PM-DS-12-06-Rev-10 3.2024
Typical low irradiance performance of module at CTC.				Re

LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC:



Specifications subject to change without notice.



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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