

SOLAR'S MOST TRUSTED

REC ALPHA® PURE 2 SERIES



COMPACT PANEL SIZE

400-430 WP

HETEROJUNCTION TECHNOLOGY

22.2% MAX. EFFICIENCY -0.24% /K TEMP. COEFF. P_{MAX} 92% MIN. POWER IN YEAR 25

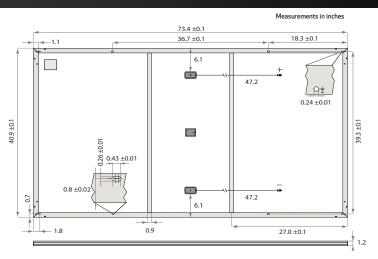




REC ALPHA® PURE 2 SERIES

DATASHEET

GENERAL DATA	
Cell Type	132 half-cut bifacial REC heterojunction cells, with gapless 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)
Junction Box	3-part, 3 bypass diodes, IP68 rated, in accordance with IEC 62790
Connectors	Stäubli MC4 PV-KBT4/KST4 (12AWG) in accordance with IEC 62852, IP68 only when connected
Cable	12 AWG solar cable, 47.2 in + 47.2 in in accordance with EN50618
Dimensions	73.4 x 40.9 x 1.2 in (20.8 ft ²)
Weight	47.8 lb
Origin	Made in Singapore



	ELECTRICAL DATA PRODUCT CODE*: RECxxxAA Pure 2				
	Power Output - P_{max} (W_{p})	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
5	Short Circuit Current - I _{sc} (A)	10.60	10.67	10.74	10.81
	Power Density (W/ft²)	19.2	19.7	20.2	20.7
	Panel Efficiency (%)	20.6	21.1	21.7	22.2
	Power Output - P_{max} (W_{p})	304	312	320	327
	Nominal Power Voltage - $V_{_{MPP}}(V)$	38.7	39.2	39.8	40.3
5	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)	8.5	8.62	8.68	8.73

Values at standard test conditions (STC:air mass AM 1.5, irradiance 1000 W/m², temperature 77°F (25°C)), based on a production spread with a tolerance of P_{MMV} V_{DC} &I_{SC} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1m/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

33
792 (24 Pallets)
858 (26 Pallets)

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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CERTIFICATIONS

IEC 61215:2021; IEC61730:2016; UL61730		
IEC 62716	Ammonia Resistance	
IEC 61701	Salt Mist (SM6)	
IEC 61215:2016	Hailstone (35mm)	
UL 61730	Fire Type 2	
ISO 14001; ISO9001; IEC45001; IEC62941		

take way Take-e-way WEEE-compliant scheme

WARRANTY **REC** ProTrust Standard Installed by an REC Yes No Yes **Certified Professional** 25-500 kW System Size All <25 kW Product Warranty (yrs) 20 25 25 Power Warranty (yrs) 25 25 25 0 25 10 Labor Warranty (yrs) Power in Year 1 98% 98% 98% 0.25% Annual Degradation 0.25% 0.25% Ref: PM-DS-12-06-Rev-3.2 4.2024 Power in Year 25 92% 92% 92%

The REC ProTrust Warranty is only available on panels purchased through an REC Certified Solar Professional installer. Warranty conditions apply. See wy com for more details vw.recgroup.

LOW LIGHT BEHAVIOR

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Typical low irradiance performance of module at STC:



Irradiance (W/m²)

