



2022 WINNER

REC ALPHOONS

PURE SERIES

PRODUCT SPECIFICATIONS

COMPACT PANEL SIZE

405 WP
20.3 %FT2
21.9% EFFICIENCY







	-	28 [1.1]	4	1821	±2.5 [71.7±0.1] 901 [35.5]		460 [18.1]	
1016±2.5 [40 ±0.1]	17 [0.7]	20.5±0			153.7 [6.05]	1100 [43.3] + 1200 [47.2]	6.0±0.2 [0.24±0.01]	975±2.5 [38.4±0.1]
*		- 45 [1.8]	2:	2.5 [0.9]	*	671 ±3	[26.4 ±0.12]	
						Measur	ements in mm [ir	30 [1.2 n]

	ELECTRICAL DATA		Product C	ode*: RECxx	xAA Pure	
STC	Power Output - P _{MAX} (Wp)	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	20.3	20.6
	Panel Efficiency (%)	21.1	21.4	21.6	21.9	22.2
NMOT	Power Output - P _{MAX} (Wp)	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 10.75 W/sq ft (1000 W/m²), temperature 77° F (25° C), based on a production spread values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77° F (25° C), based on a production spread value 100° C (100° C). with a tolerance of P_{MMN} V_{OC} W_{loc} ±3% within one watt class. Nominal module operating temperature (MMOT: 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_{MMN}) at STC above.

MAXIMUM RATINGS		
Operational temperature:	-40+185°F	
Maximum system voltage:	1000 V	
Maximum test load (front):	+7000 Pa (146 lbs/ft²)*	
Maximum test load (rear):	- 4000 Pa (83.5 lbs/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)

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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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

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











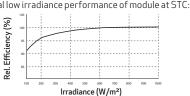
TEMPERATURE RATINGS' Nominal Module Operating Temperature: 44°C (±2°C) Temperature coefficient of P_{MAX} : -0.24 %/°K Temperature coefficient of V_{oc} : -0.24 %/°K Temperature coefficient of I_{sc}: 0.04 %/°K

*The temperature coefficients stated are linear values

DELIVERY INFORMATION 33 Panels per pallet: Panels per 40 ft GP/high cube container: 792 (24 pallets) Panels per 53 ft truck: 891 (27 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 consumerswith 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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