



REC ALPHOON PRODUCT SPECIFICATIONS



410 WP 19.3 W_{FT²} 22.2% EFFICIENCY







	-	28 [1.1]	-	1821±2.5 901 [460 [18.1]	
1016±2.5 [40±0.1]	D		0.00 11±0.2 0.03±0.01]		153.7 [6.05]	1100 (43.3) +	0± 6.0±0.2 [0.24±0.01]	975±25 [38.4±0.1]
,	17 [0.7]	20.5±0.5 [0.8±0.02]		C	153.7 [6.05]	1200 [47.2]		
	<u></u>	45 [1.8]	22	.5 [0.9]		671 ±3	[26.4 ±0.12]]
		<u> </u>		<u> </u>		Measur	ements in mm [in	30 [1.2 i]

	ELECTRICAL DATA		Product (Code*: RECxxx	AA 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
	$ShortCircuitCurrent\text{-}I_{SC}(A)$	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

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MAXIMUM RATINGS		
Operational temperature:	-40+85°C	
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 Professiona	l ^{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%
The REC ProTrust Warranty is only available on panels purchase			

through an REC Certified Solar Professional installer. Warranty conditions apply. See www.recgroup.com for more details.

Available from:

CERTIFICATIONS				
IEC 61215:2016, IEC 6	1730:2016, UL 61730			
IEC 62804	PID			
IEC 61701	Salt Mist			
IEC 62716	Ammonia Resistance			
UL 61730	Fire Type Class 2			
IEC 62782	Dynamic Mechanical Load			
IEC 61215-2:2016	Hailstone (35mm)			
IEC 62321	Lead-free acc. to RoHS EU 863/201			
ISO 14001, ISO 9001, IE	EC 45001, IEC 62941			



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MPERATURE RATINGS*	
minal Module Operating Temperature:	44°C (±2°C)
mperature coefficient of P _{MAX} :	-0.24 %/°C
mperature coefficient of V _{oc} :	-0.24 %/°C

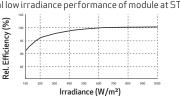
*The temperature coefficients stated are linear values

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

LOW LIGHT BEHAVIOUR

Temperature coefficient of I_{SC} :

Typical low irradiance performance of module at STC:



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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0.04 %/°C