

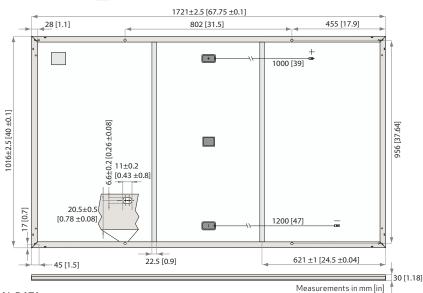


REC ALPHX BLACK SERIES

375 WP POWER
20 YEAR PRODUCT WARRANTY
25 YEAR POWER OUTPUT WARRANTY



C ALPHOX BLACK SERIE RODUCT DATASHEET



GENERAL DATA

ELECTRICAL DATA @ STC

C III	120 half-cut cells with REC
Celltype:	heterojunction cell technology 6 strings of 20 cells in series
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment
Backsheet:	Highly resistant polymeric construction
Frame:	Anodized aluminum (black)

Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790
Cable:	12 AWG (4 mm²) PV wire, 39 + 47 in (1 + 1.2 m) in accordance with EN 50618
Connectors:	StäubliMC4PV-KBT4/KST4,12AWG(4mm²) in accordance with IEC 62852 IP68 only when connected
Origin:	Made in Singapore

Product Code*: RECxxxAA Black

Nominal Power - P _{MPP} (Wp)	355	360	365	370	375
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V _{MPP} (V)	37.4	37.7	38.0	38.3	38.7
Nominal Power Current - I _{MPP} (A)	9.50	9.55	9.60	9.66	9.72
Open Circuit Voltage - V _{oc} (V)	44.0	44.1	44.3	44.5	44.6
Short Circuit Current - I _{sc} (A)	10.19	10.23	10.26	10.30	10.40
Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4
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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 with a tolerance of V_{occ} & I_{sc} ±3% within one watt class. * Where xxx indicates the nominal power class (P_{MPP}) at STC above.

ELECTRICAL DATA @ NM	10T	Product Code*: R			ECxxxAA Black		
Nominal Power - P _{MPP} (Wp)			270	274	278	282	286
Nominal Power Voltage - $V_{_{MPP}}(V)$			35.2	35.5	35.8	36.1	36.4
Nominal Power Current - I _{MPP} (A)			7.67	7.71	7.76	7.80	7.85
Open Circuit Voltage - V _{oc} (V)			41.4	41.6	41.7	41.9	42.0
Short Circuit Current - I _{sc} (A)			8.23	8.26	8.29	8.32	8.40
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Nominal module operating temperature (NMOT: air mass AM 1.5, 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_{MPP}) at STC above.

CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730				
IEC 62804	PID			
IEC 61701	Salt Mist			
IEC 62716	Ammonia Resistance			
UL1703	Fire Type Class 2			
IEC 62782	Dynamic Mechanical Load			
IEC 61215-2:2016	Hailstone (35mm)			
AS4040.2 NCC 2016	Cyclic Wind Load			
ISO 14001:2004, ISO 9001:2015, OHSAS 18001:2007				

WARRANTY



20 year product warranty 25 year linear power output warranty Maximum annual power degression of 0.25% p.a. Guarantees 92% of power after 25 years See warranty conditions for further details.

MECHANICAL DATA

Dimensions:	67.8 x 40 x 1.2 in (1721 x 1016 x 30 mm)
Area:	18.8 sq ft (1.75 m²)
Weight:	43 lbs (19.5 kg)

- MAXIMUM RATINGS

Operational temperature:	-40+85°C
Maximum system voltage	e: 1000 V
Design load (+): snow Maximum test load (+):	4666 Pa (97.5 lbs/sq ft)⁺ 7000 Pa (146 lbs/sq ft)*
Design load (-): wind Maximum test load (-):	2666 Pa (55.6 lbs/sq ft)* 4000 Pa (83.5 lbs/sq ft)*
Max series fuse rating:	25 A
Max reverse current:	25 A
	* Calculated using a safety factor of 1.5

*See installation manual for mounting instructions

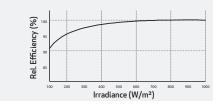
TEMPERATURE RATINGS*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P _{MPP} :	-0.26 %/°C
Temperature coefficient of V_{oc} :	-0.24 %/°C
Temperature coefficient of I _{sc} :	0.04 %/°C
*The temperature coefficients state	d are linear values

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LOW LIGHT BEHAVIOUR

Typical low irradiance performance of module at STC:



Founded in Norway in 1996, REC is a leading vertically integrated solar energy company. Through integrated manufacturing from silicon to wafers, cells, high-quality panels and extending to solar solutions, REC provides the world with a reliable source of clean energy. REC's renowned product quality is supported by the lowest warranty claims rate in the industry. REC is a Bluestar Elkem company with headquarters in Norway and operational headquarters in Singapore. REC employs around 2,000 people worldwide, producing 1.5 GW of solar panels annually.



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