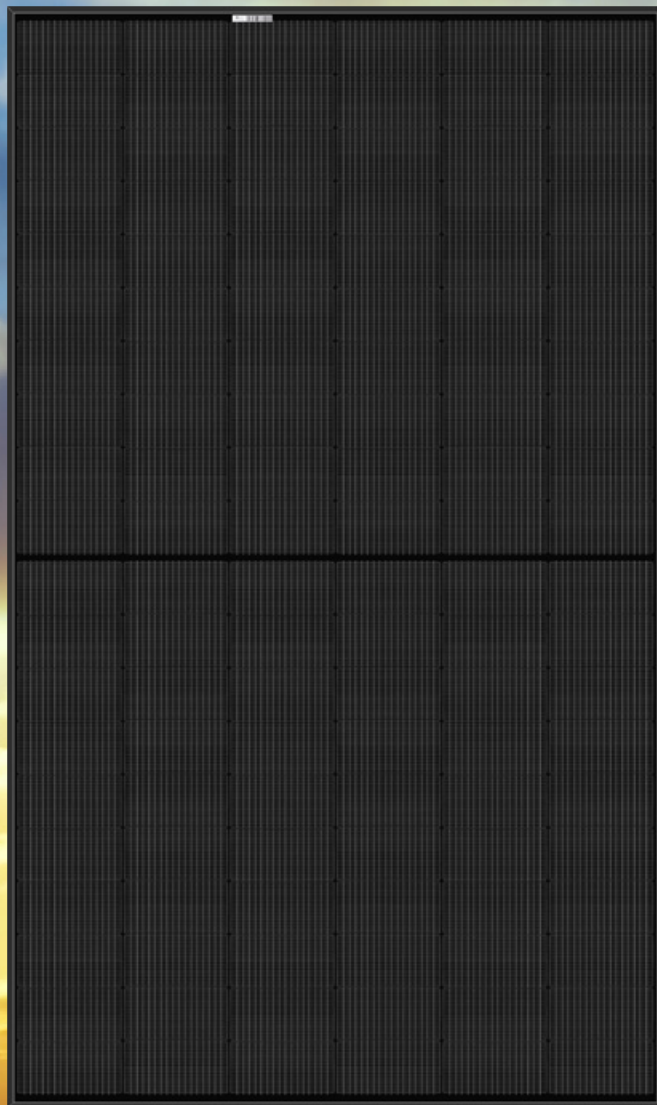


SOLAR'S MOST TRUSTED



# REC ALPHA BLACK SERIES

375  
WP  
POWER



ELIGIBLE FOR

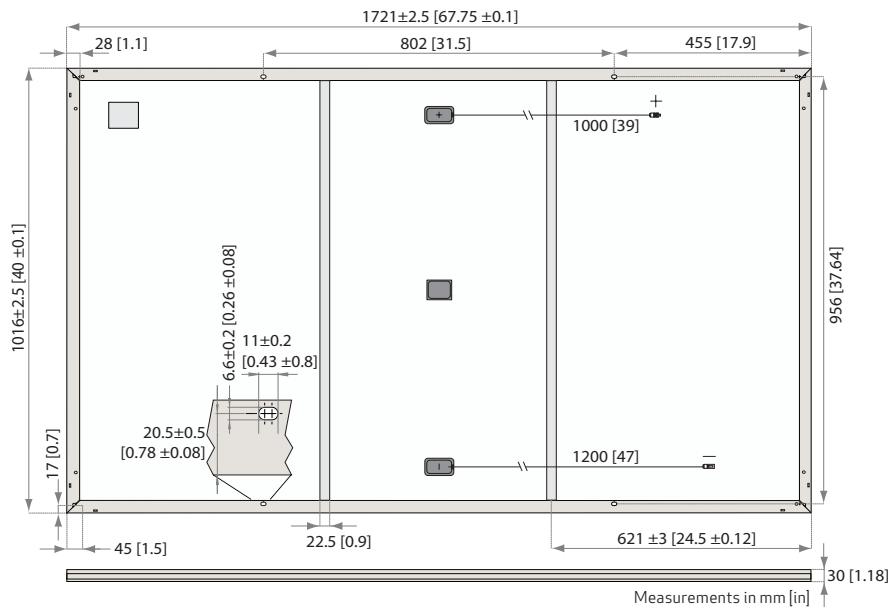
EXPERIENCE



PERFORMANCE

# REC ALPHA BLACK SERIES

## PRODUCT DATASHEET



### GENERAL DATA

Cell type:	120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series	Connectors:	Stäubli MC4PV-KBT4/KST4, 12AWG (4mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:	12AWG (4mm <sup>2</sup> ) PV wire, 39+47 in (1+1.2m) in accordance with EN 50618
Backsheet:	Highly resistant polymeric construction (black)	Dimensions:	67.8x40x1.2 in (1721x1016x30 mm) 18.8 sq ft (1.75 m <sup>2</sup> )
Frame:	Anodized aluminum (black)	Weight:	43 lbs (19.5 kg)
Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790	Origin:	Made in Singapore

### ELECTRICAL DATA

#### Product Code\*: RECxxxAA Black

	355	360	365	370	375
Power Output - P <sub>MAX</sub> (Wp)	355	360	365	370	375
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - V <sub>MPP</sub> (V)	36.4	36.7	37.1	37.4	37.8
Nominal Power Current - I <sub>MPP</sub> (A)	9.77	9.82	9.85	9.9	9.94
Open Circuit Voltage - V <sub>OC</sub> (V)	43.6	43.9	44	44.1	44.2
Short Circuit Current - I <sub>SC</sub> (A)	10.47	10.49	10.52	10.55	10.58
Power Density (W/sq ft)	202.9	19.15	19.41	19.68	19.94
Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4
Power Output - P <sub>MAX</sub> (Wp)	271	274	278	282	286
Nominal Power Voltage - V <sub>MPP</sub> (V)	34.3	34.6	35.0	35.2	35.6
Nominal Power Current - I <sub>MPP</sub> (A)	7.89	7.93	7.96	8.00	8.03
Open Circuit Voltage - V <sub>OC</sub> (V)	41.1	41.4	41.5	41.6	41.6
Short Circuit Current - I <sub>SC</sub> (A)	8.46	8.47	8.50	8.52	8.55

Values at standard test conditions (STC: air mass AM1.5, irradiance 10.75 W/sq ft (1000 W/m<sup>2</sup>), temperature 77°F (25°C), based on a production spread with a tolerance of P<sub>MAX</sub>, V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). \*Where xxx indicates the nominal power class (P<sub>MAX</sub>) 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
UL 1703	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, IEC 62941	



### WARRANTY

	Standard		REC ProTrust
	No	Yes	Yes
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%

See warranty documents for details. Conditions apply.

### MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666 Pa (97.5 lbs/sq ft)*
Maximum test load (+):	7000 Pa (146 lbs/sq ft)*
Design load (-): wind	2666 Pa (55.6 lbs/sq ft)*
Maximum test load (-):	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

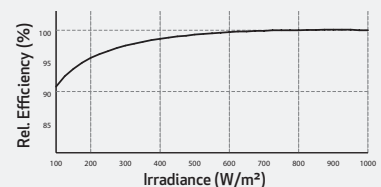
### TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MAX</sub> :	-0.26 %/°C
Temperature coefficient of V <sub>OC</sub> :	-0.24 %/°C
Temperature coefficient of I <sub>SC</sub> :	0.04 %/°C

The temperature coefficients stated are linear values

### 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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