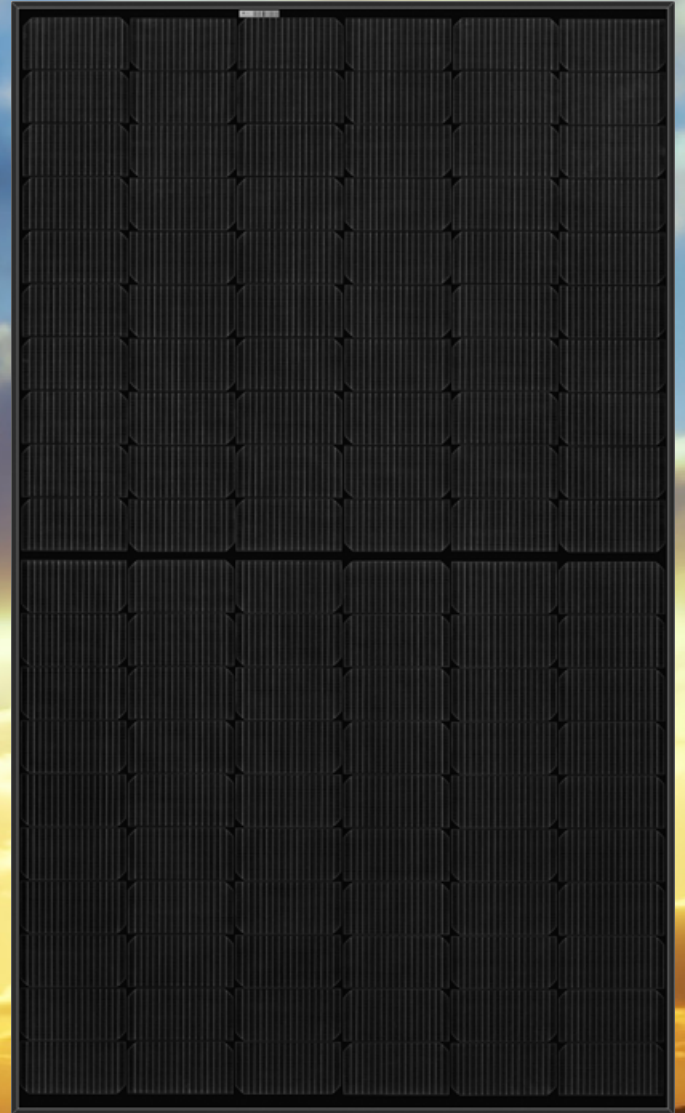


SOLAR'S MOST TRUSTED



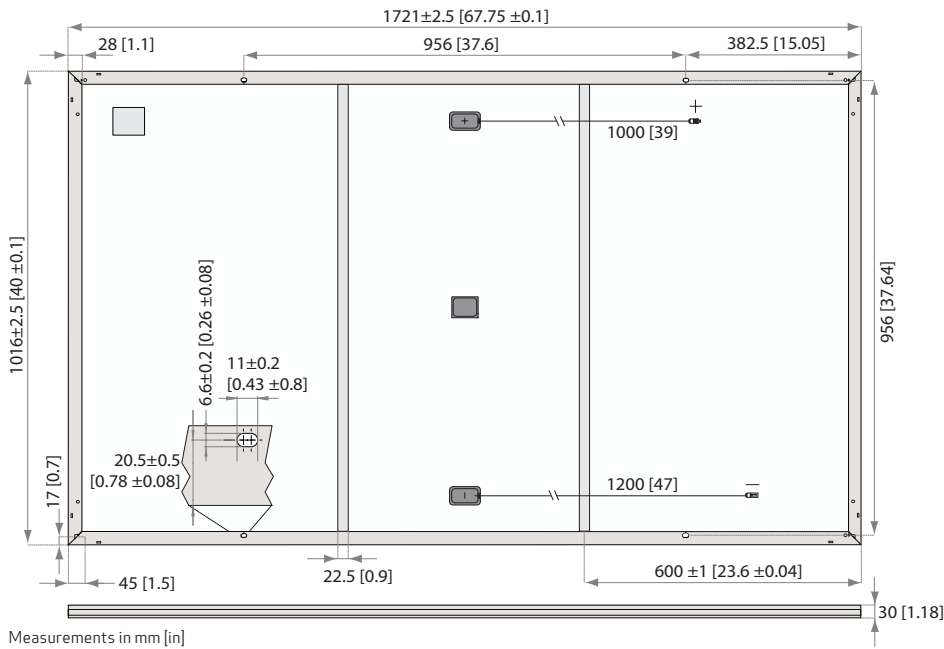
# REC ALPHA BLACK SERIES

375 W<sub>P</sub> POWER

20 YEAR PRODUCT WARRANTY

25 YEAR LINEAR POWER OUTPUT WARRANTY

# REC ALPHA BLACK SERIES



## GENERAL DATA

Cell type:	120 half-cut n-type mono cells with REC 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 (black)
Frame:	Anodized aluminum (black)
Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790
Cable:	12 AWG (4 mm <sup>2</sup> ) PV wire, 39 + 47 in (1 + 1.2 m) in accordance with EN 50618
Connectors:	Stäubli MC4 PV-KBT4/KST4, 12 AWG (4 mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected
Origin:	Made in Singapore

## MECHANICAL DATA

Dimensions:	678 x 40 x 1.2 in (1721 x 1016 x 30 mm)
Area:	18.8 sq ft (1.75 m <sup>2</sup> )
Weight:	43 lbs (19.5 kg)

## 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

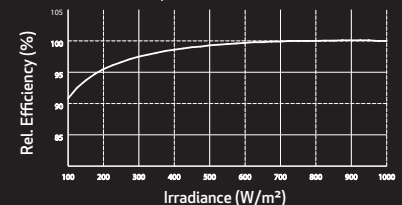
## TEMPERATURE RATINGS\*

Nominal Module Operating Temperature:	44°C (±2°C)
Temperature coefficient of P <sub>MPP</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:



## ELECTRICAL DATA @ STC

### Product Code\*: RECxxxAA Black

Nominal Power - P <sub>MPP</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)	37.4	37.7	38.0	38.3	38.7
Nominal Power Current - I <sub>MPP</sub> (A)	9.50	9.55	9.60	9.66	9.71
Open Circuit Voltage - V <sub>OC</sub> (V)	44.0	44.3	44.6	44.9	45.2
Short Circuit Current - I <sub>SC</sub> (A)	10.14	10.16	10.19	10.21	10.23
Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4

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 V<sub>OC</sub> & I<sub>SC</sub> ±3% within one watt class. \* Where xxx indicates the nominal power class (P<sub>MPP</sub>) at STC above.

## ELECTRICAL DATA @ NMOT

### Product Code\*: RECxxxAA Black

Nominal Power - P <sub>MPP</sub> (Wp)	268	272	276	279	284
Nominal Power Voltage - V <sub>MPP</sub> (V)	35.0	35.3	35.5	35.8	36.2
Nominal Power Current - I <sub>MPP</sub> (A)	7.67	7.71	7.75	7.80	7.84
Open Circuit Voltage - V <sub>OC</sub> (V)	41.1	41.4	41.7	42.0	42.3
Short Circuit Current - I <sub>SC</sub> (A)	8.19	8.21	8.23	8.25	8.26

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>MPP</sub>) at STC above.

## CERTIFICATIONS



## WARRANTY

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

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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