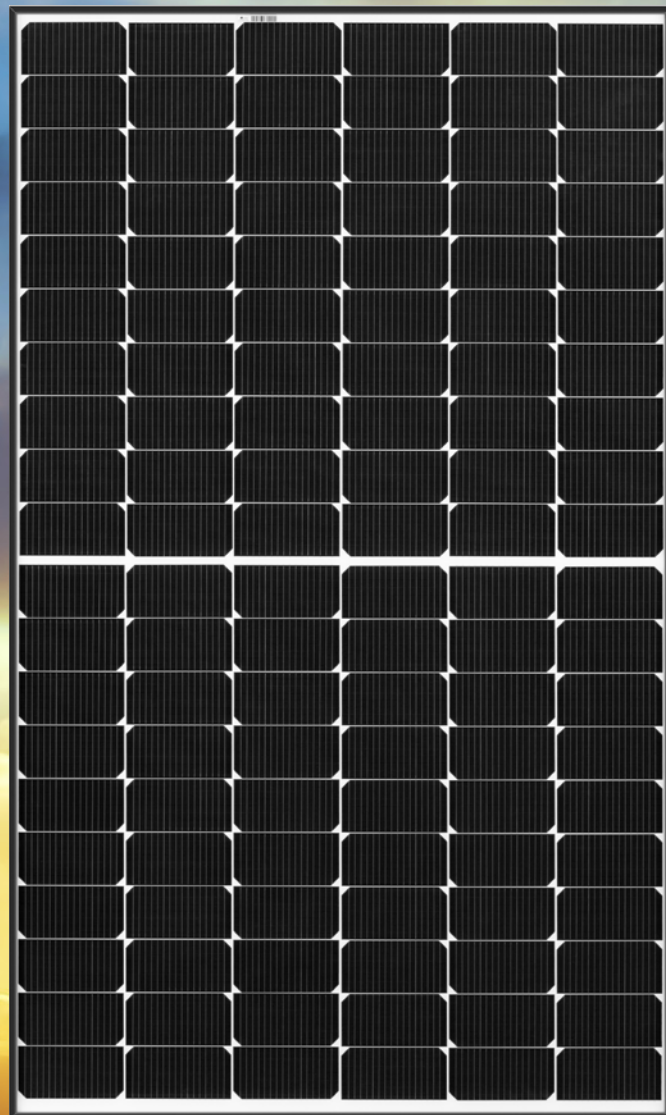


SOLAR'S MOST TRUSTED



# REC ALPHA SERIES



380 W<sub>P</sub>

POWER

20 YEAR

PRODUCT WARRANTY

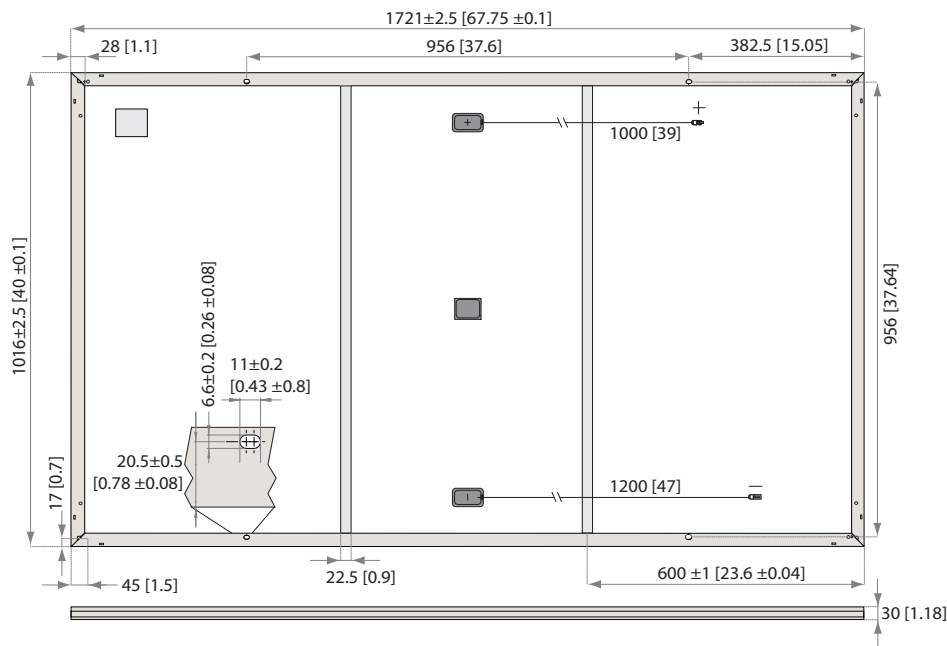
25 YEAR

POWER OUTPUT WARRANTY



[recgroup.com/alpha](http://recgroup.com/alpha)

# REC ALPHA SERIES



Measurements in mm [in]

## ELECTRICAL DATA @ STC

### Product Code\*: RECxxxAA

Nominal Power - $P_{MPP}$ (Wp)	360	365	370	375	380
Watt Class Sorting - (W)	-0/+5	-0/+5	-0/+5	-0/+5	-0/+5
Nominal Power Voltage - $V_{MPP}$ (V)	37,7	38,0	38,3	38,7	39,0
Nominal Power Current - $I_{MPP}$ (A)	9,55	9,60	9,66	9,71	9,76
Open Circuit Voltage - $V_{OC}$ (V)	44,3	44,6	44,9	45,2	45,5
Short Circuit Current - $I_{SC}$ (A)	10,16	10,19	10,21	10,23	10,26
Panel Efficiency (%)	20,6	20,9	21,2	21,4	21,7

Values at standard test conditions (STC: air mass AM1.5, irradiance 1000 W/m<sup>2</sup>, temperature 25°C), based on a production spread with a tolerance of  $V_{OC}$  &  $I_{SC}$   $\pm 3\%$  within one watt class. \*Where xxx indicates the nominal power class ( $P_{MPP}$ ) at STC above.

## ELECTRICAL DATA @ NMOT

### Product Code\*: RECxxxAA

Nominal Power - $P_{MPP}$ (Wp)	272	276	279	284	287
Nominal Power Voltage - $V_{MPP}$ (V)	35,3	35,5	35,8	36,2	36,5
Nominal Power Current - $I_{MPP}$ (A)	7,71	7,75	7,80	7,84	7,88
Open Circuit Voltage - $V_{OC}$ (V)	41,4	41,7	42,0	42,3	42,5
Short Circuit Current - $I_{SC}$ (A)	8,21	8,23	8,25	8,26	8,29

Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s).

\*Where xxx indicates the nominal power class ( $P_{MPP}$ ) at STC above.

## CERTIFICATIONS



UL 1703; ISO 11925-2  
In process: IEC 61215, IEC 61730;  
ISO 9001: 2015; ISO 14001: 2004, OHSAS 18001: 2007

**takeaway** take-away WEEE-compliant recycling scheme

## 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.

## GENERAL DATA

Cell type:	120 half-cut heterojunction cells with REC heterojunction cell technology 6 strings of 20 cells in series
Glass:	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:	4 mm <sup>2</sup> solar cable, 1.0 m + 1.2 m in accordance with EN 50618
Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected
Origin:	Made in Singapore

## MECHANICAL DATA

Dimensions:	1721 x 1016 x 30 mm
Area:	1.75 m <sup>2</sup>
Weight:	19.5 kg

## MAXIMUM RATINGS

Operational temperature:	-40 ... +85°C
Maximum system voltage:	1000 V
Design load (+): snow	4666 Pa (475 kg/m <sup>2</sup> )*
Maximum test load (+):	7000 Pa (713 kg/m <sup>2</sup> )*
Design load (-): wind	2666 Pa (272 kg/m <sup>2</sup> )*
Maximum test load (-):	4000 Pa (407 kg/m <sup>2</sup> )*
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

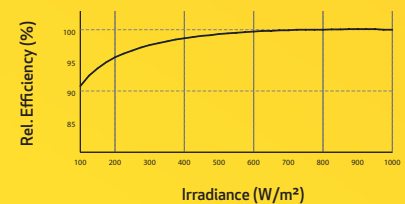
## TEMPERATURE RATINGS\*

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 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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