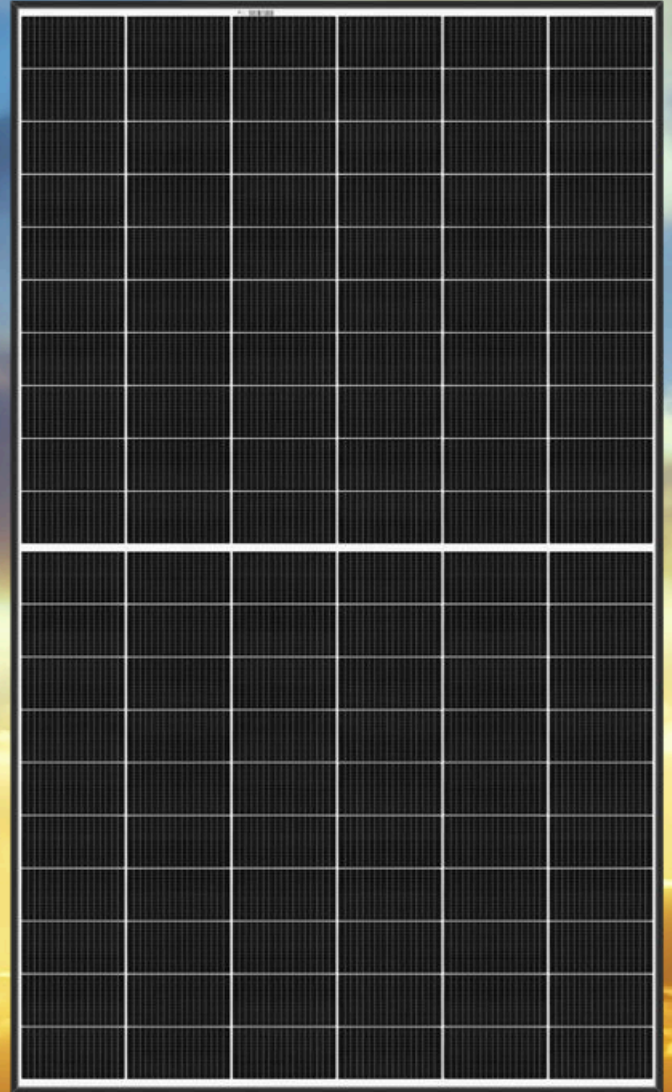


SOLAR'S MOST TRUSTED



REC ALPHA SERIES

380
WP
POWER



ELIGIBLE FOR

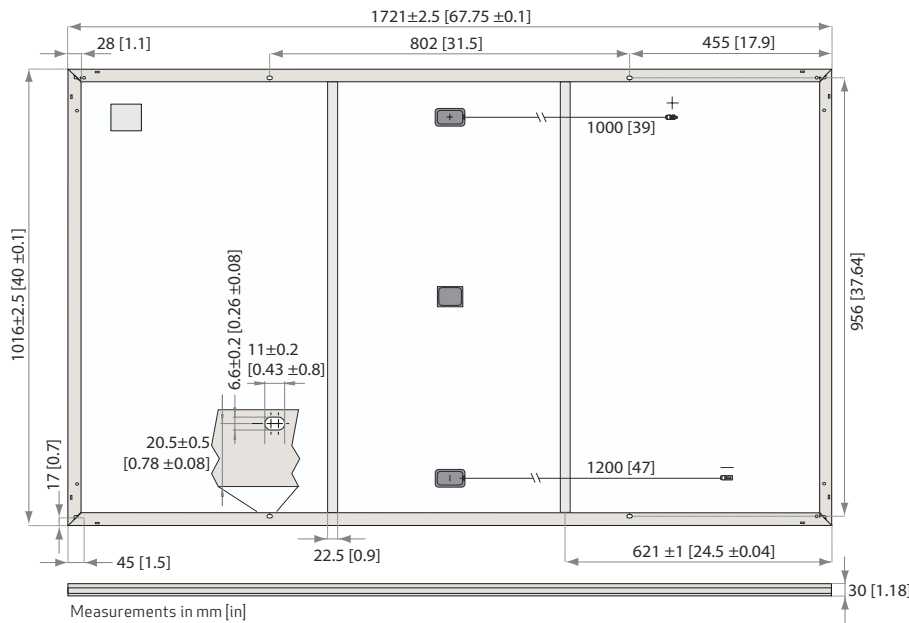
EXPERIENCE



PERFORMANCE

REC ALPHA SERIES

PRODUCT DATASHEET



CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
ISO 11925-2	Ignitability (Class E)
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*

	Standard	REC ProTrust	
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.

GENERAL DATA

Cell type:	120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series	Junction box:	3-part, 3 bypass diodes, IP67 rated in accordance with IEC 62790
Glass:	3.2 mm solar glass with anti-reflection surface treatment	Cable:	4 mm ² solar cable, 1.0 m + 1.2 m in accordance with EN 50618
Backsheet:	Highly resistant polymeric construction	Connectors:	Stäubli MC4 PV-KBT4/KST4 (4 mm ²) in accordance with IEC 62852 IP68 only when connected
Frame:	Anodized aluminum (black)	Origin:	Made in Singapore

MECHANICAL DATA

Dimensions:	1721 x 1016 x 30 mm
Area:	1.75 m ²
Weight:	19.5 kg

MAXIMUM RATINGS

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

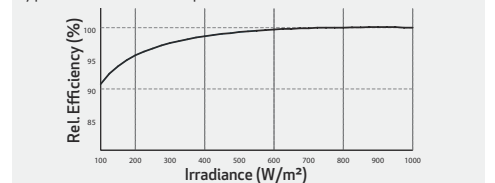
TEMPERATURE RATINGS*

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:



ELECTRICAL DATA @ STC

Product Code*: RECxxxAA

	360	365	370	375	380
Nominal Power - P _{MAX} (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	9.72	9.76
Open Circuit Voltage - V _{OC} (V)	44.1	44.3	44.5	44.6	44.7
Short Circuit Current - I _{SC} (A)	10.23	10.26	10.30	10.40	10.46
Power Density (W/m ²)	205.71	208.57	211.42	214.28	217.14
Panel Efficiency (%)	20.6	20.9	21.2	21.4	21.7

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAX}, V_{OC} & I_{SC} ±3% within one watt class. *Where xxx indicates the nominal power class (P_{MAX}) at STC above.

ELECTRICAL DATA @ NMOT

Product Code*: RECxxxAA

	274	278	282	286	290
Nominal Power - P _{MAX} (Wp)	274	278	282	286	290
Nominal Power Voltage - V _{MPP} (V)	35.5	35.8	36.1	36.4	36.7
Nominal Power Current - I _{MPP} (A)	7.71	7.76	7.80	7.85	7.88
Open Circuit Voltage - V _{OC} (V)	41.6	41.7	41.9	42.0	42.1
Short Circuit Current - I _{SC} (A)	8.26	8.29	8.32	8.40	8.45

Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s).
*Where xxx indicates the nominal power class (P_{MAX}) at STC above.

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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