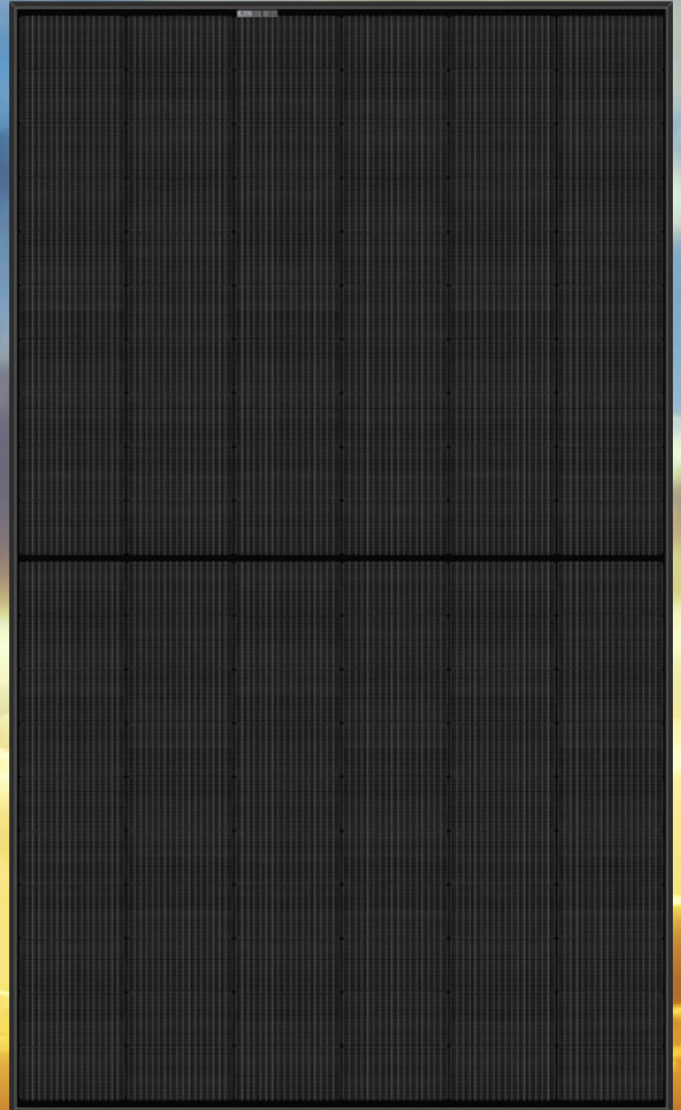


SOLAR'S MOST TRUSTED



# REC ALPHA BLACK SERIES

375  
WP  
POWER



ELIGIBLE FOR



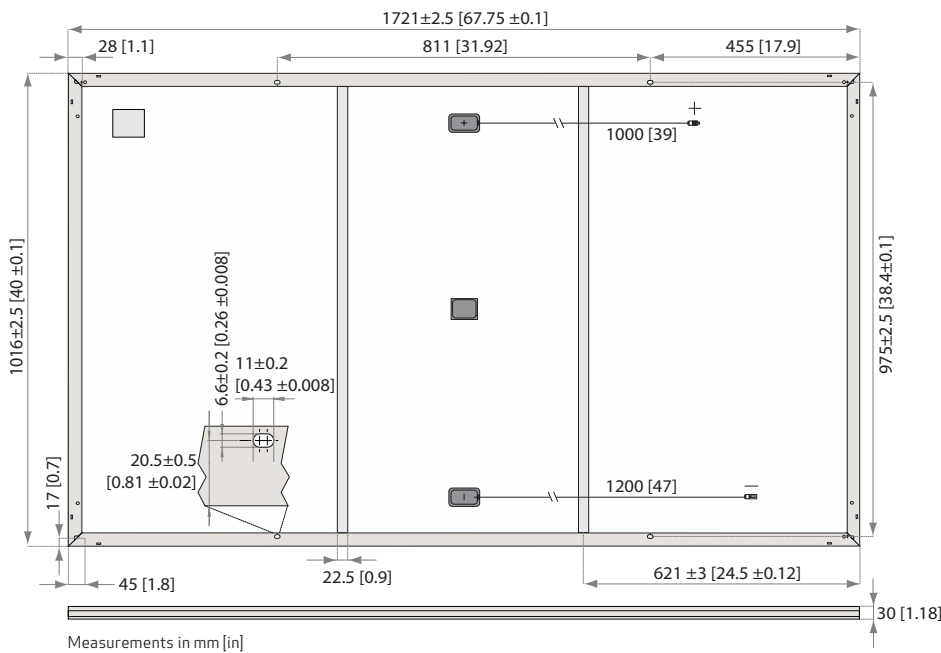
EXPERIENCE



PERFORMANCE

# REC ALPHA BLACK 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, IEC 62941	



### 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.

### 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

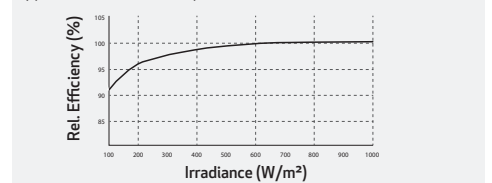
### TEMPERATURE RATINGS\*

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



### GENERAL DATA

Cell type:	120 half-cut cells with REC heterojunction cell technology 6 strings of 20 cells in series	Connectors:	Stäubli MC4 PV-KBT4/KST4 (4mm <sup>2</sup> ) in accordance with IEC 62852 IP68 only when connected
Glass:	3.2 mm solar glass with anti-reflection surface treatment	Cable:	4 mm <sup>2</sup> solar cable, 1.0 m + 1.2 m in accordance with EN 50618
Backsheet:	Highly resistant polymeric construction (black)	Dimensions:	1721 x 1016 x 30 mm (1.75 m <sup>2</sup> )
Frame:	Anodized aluminum (black)	Weight:	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	
STC	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	44.0	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/m <sup>2</sup> )	202.85	205.71	208.57	211.42	214.28
	Panel Efficiency (%)	20.3	20.6	20.9	21.2	21.4
NMOT	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 AM 1.5, irradiance 1000 W/m<sup>2</sup>, temperature 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 AM 1.5, irradiance 800 W/m<sup>2</sup>, temperature 20°C, windspeed 1 m/s). \*Where xxx indicates the nominal power class (P<sub>MAX</sub>) at STC above.

REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power in order to facilitate global energy transitions. Committed to quality and innovation, REC offers photovoltaic modules with leading high quality, backed by an exceptional low warranty claims rate of less than 100ppm. Founded in Norway in 1996, REC employs 2,000 people and has an annual solar panel capacity of 1.8 GW. With over 10 GW installed worldwide, REC is empowering more than 16 million people with clean solar energy. REC Group is a Bluestar Elkem company with headquarters in Norway, operational headquarters in Singapore, and regional bases in North America, Europe, and Asia-Pacific.

