

SOLAR'S MOST TRUSTED



REC ALPHA SERIES

380
WP
POWER



ELIGIBLE

EXPERIENCE



PERFORMANCE

The REC Alpha Series is a revolutionary hybrid solar panel which unites the leading cell technology to create the world's most powerful and reliable 60-cell panel:

- High power density maximizes energy generation from limited spaces - up to 217 W/m²
- The most advanced cell structure for highest efficiency performance
- Over 20% more power than conventional panels
- More savings from your roof

Heterojunction cells

- Combine the best of crystalline and thin-film technologies
- Most efficient cell architecture for high performance

N-type technology = more power

- No LID protects panel from initial power loss
- You get the power you pay for

Unique Advanced Cell Connections

- Eliminates invasive soldering process for better build quality
- Reduces thermal stress on the cells for long-term durability
- Great aesthetics

Higher light transmission

- Special anti-reflective glass increases light transmission for higher power

Guaranteed better durability

- Super-strong frame withstands up to 7000 Pa
- Better protection against harsh weather
- Improves cell life for long-lasting high power

Stunning appearance

- Uniform look fits seamlessly on your roof
- Practically-invisible connections for the best choice for your home

Highest power density of 217 W/m²

- Highest power density on a 60-cell panel
- Pack in more power in limited or restricted spaces
- Generate more clean energy

Higher efficiency at the hottest times

- Leading temperature coefficient for more production when the sun shines strongest
- Better performance in hot climates

REC's iconic Twin Design

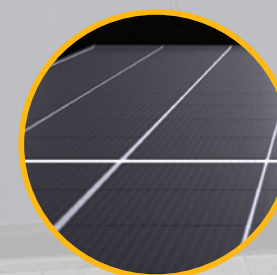
- Reduces internal resistance for more power and reliability
- Improved output when shaded

Environmentally-friendly

- Colossal 81% reduced lead content, only 0.02% by weight
- Energy-efficient manufacturing processes minimize carbon footprint

Industry-leading quality

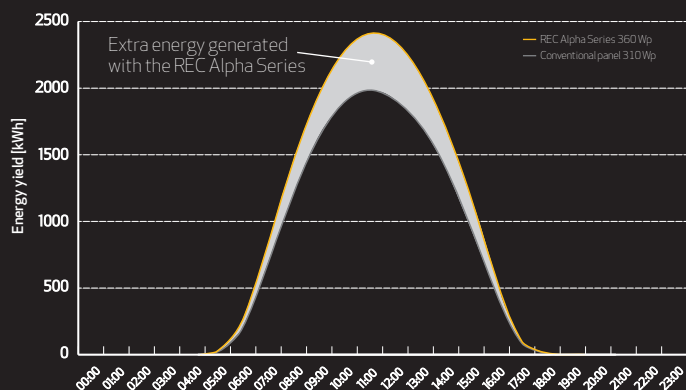
- Manufactured in REC's state of the art, energy efficient facility in Singapore
- Highly automated production improves efficiency and reliability
- Lowest warranty claims rate in solar



GREATER ANNUAL YIELDS FROM DAWN TO DUSK

The REC Alpha Series packs in more energy generation than ever before. With no LID, a leading temperature coefficient and the highest 60-cell power density, it is ideal for the best energy yields and making the most of available rooftop space.

Average Daily Energy Production Comparison Over One Year

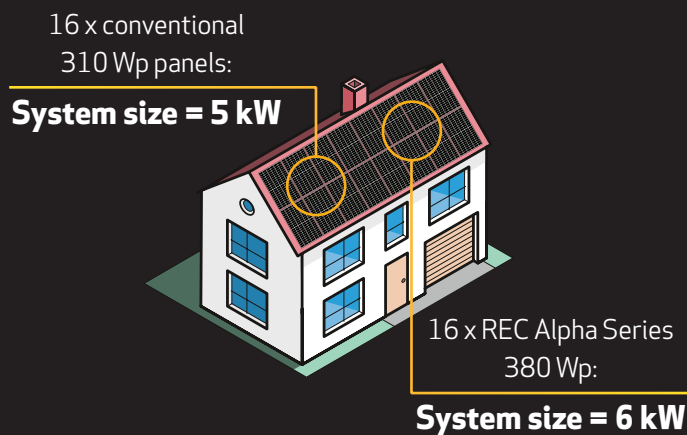


Calculations based on simulation results for full calendar year, based on an 8 kWp system in Palm Springs, CA, USA. Peak REC Alpha Series energy yield difference at midday: +21%, with an overall greater annual yield of 17%. Performance may vary dependent on location.

+20% MORE WITH THE REC ALPHA SERIES!

MAXIMIZE SYSTEM POWER FOR MAXIMUM SAVINGS

Optimum use of rooftop space is key to a good solar installation. The REC Alpha Series allows you to pack in as much power generation as possible, generating more energy and more savings on your bills.



The comparison is clear: even in a regular residential installation, the REC Alpha Series offers 1 kW more power than conventional panels for more energy and more savings.

15% MORE WARRANTED POWER AFTER 25 YEARS

The lowest claims rate in the industry justifies leading warranty terms. REC's warranty offering reflects this leadership and supports our premium product quality.



Exclusive to REC Certified Solar Professionals, the REC ProTrust Warranty offers enhanced product and labor coverage*, ensuring peace of mind and a lifetime of high power generation:

- 25 years performance warranty
- 25 years product warranty
- Up to 25 year labor warranty*

*Conditions apply. See www.recgroup.com/protrust for more details

MAKE MAJOR REDUCTIONS TO YOUR CO₂ FOOTPRINT

A 6 kW REC Alpha Series installation creates over 7,200 kWh of clean energy per year, cutting the CO₂ emissions of a home by 4.3 tons per year*, or the equivalent of:

84 trees planted and grown over 10 years

CO₂ sequestered by
6 acres
of forest per year

Charging a phone
650,000 times

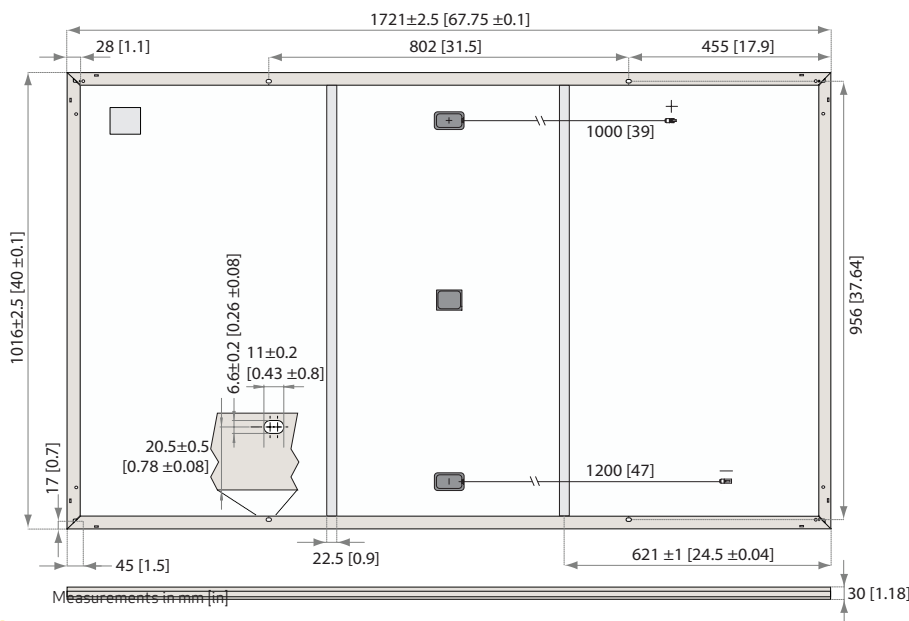
20,000 km
in a family car

Saves 2,530 kg
of coal burnt for power

1.8 tons of waste
recycled instead of entering landfill



*Values may vary dependent on location



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 (4mm ²) in accordance with IEC 62852 IP68 only when connected
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	Dimensions:	1721 x 1016 x 30 mm (1.75 m ²)
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

	360	365	370	375	380
Power Output - 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)	36.7	37.1	37.4	37.8	38.1
Nominal Power Current - I _{MPP} (A)	9.82	9.85	9.9	9.94	9.98
Open Circuit Voltage - V _{OC} (V)	43.9	44	44.1	44.2	44.3
Short Circuit Current - I _{SC} (A)	10.49	10.52	10.55	10.58	10.61
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
Power Output - P _{MAX} (Wp)	274	278	282	286	289
Nominal Power Voltage - V _{MPP} (V)	34.6	35.0	35.2	35.6	35.9
Nominal Power Current - I _{MPP} (A)	7.93	7.96	8.00	8.03	8.06
Open Circuit Voltage - V _{OC} (V)	41.4	41.5	41.6	41.6	41.7
Short Circuit Current - I _{SC} (A)	8.47	8.50	8.52	8.55	8.57

Values at standard test conditions (STC: air mass AM1.5, 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. Nominal module operating temperature (NMOT: air mass AM1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). * Where xxx indicates the nominal power class (P_{MAX}) 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
ISO 11925-2	Ignitability (Class E)
UNI 8457/9174	Ignitability (Class I)
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 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 _{MAX} :	-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:

