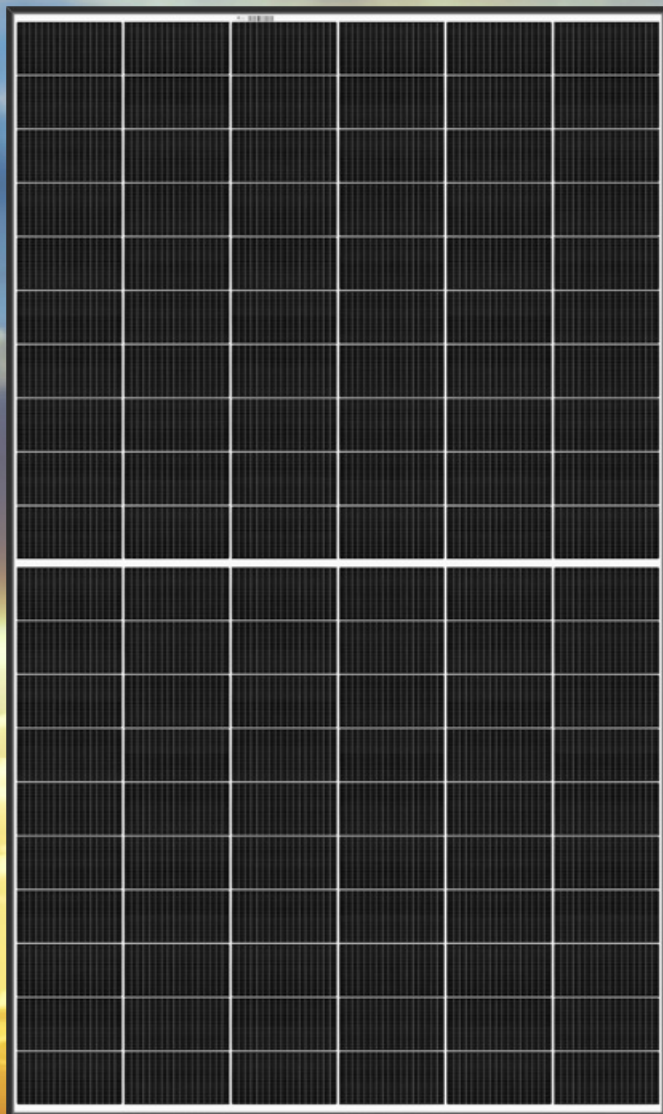


SOLAR'S MOST TRUSTED



REC ALPHA SERIES

380
WP
POWER



ELIGIBLE



EXPERIENCE



PERFORMANCE

The REC Alpha Series is a revolutionary hybrid solar panel which unites the leading cell technologies to create a powerful and reliable 60-cell panel:

- High power density maximizes energy generation from limited spaces - up to 20.2 W/ft²
- The most advanced cell structure for high 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
- Highly efficient bifacial 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

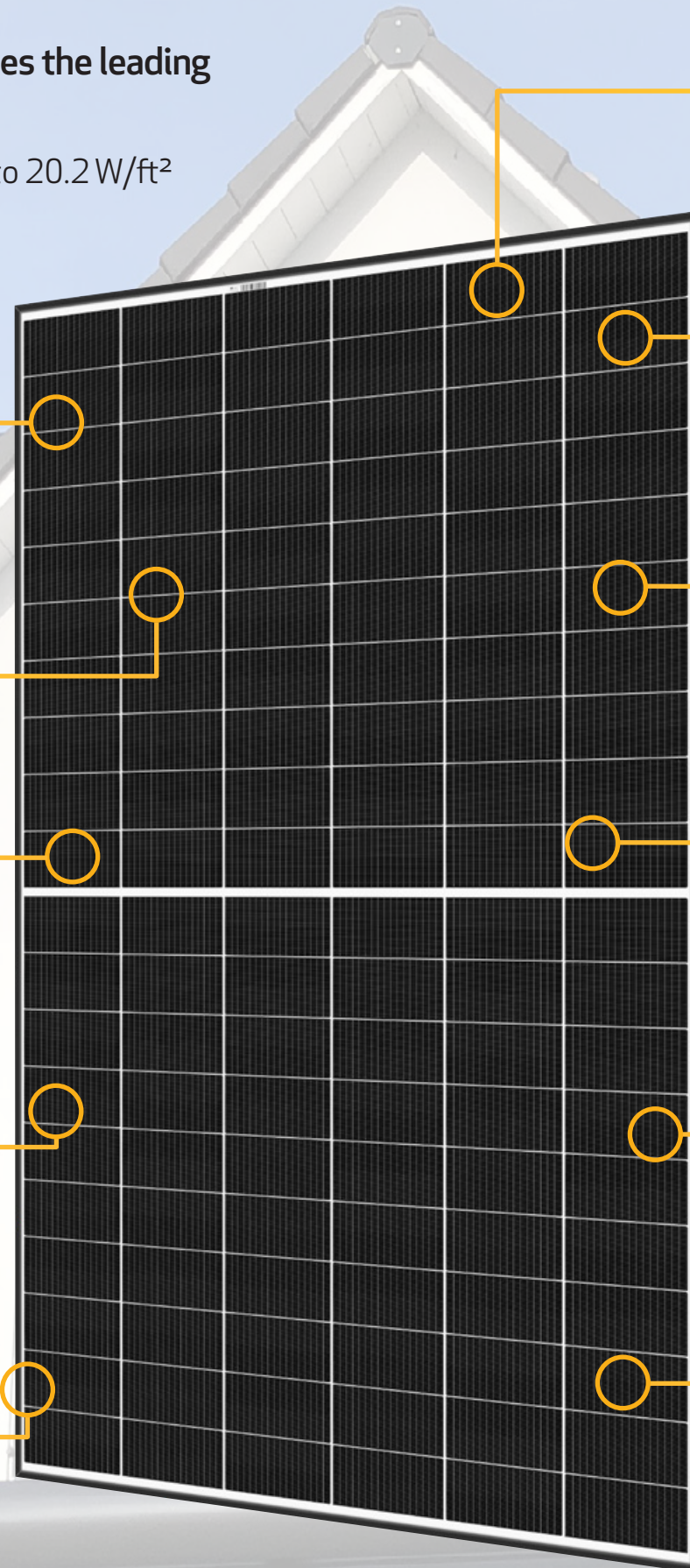
- Eliminates invasive soldering for better build quality
- Reduces thermal stress on the cells for long-term durability
- Great aesthetics

Higher light transmission

- Special anti-reflective glass increases light transmission for higher power
- Inherently bifacial cells can produce energy from both sides of the panel

Guaranteed better durability

- Super-strong frame withstands up to 146 lbs/sq ft
- 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



High power density of 20.2 W/ft²

- High 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

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



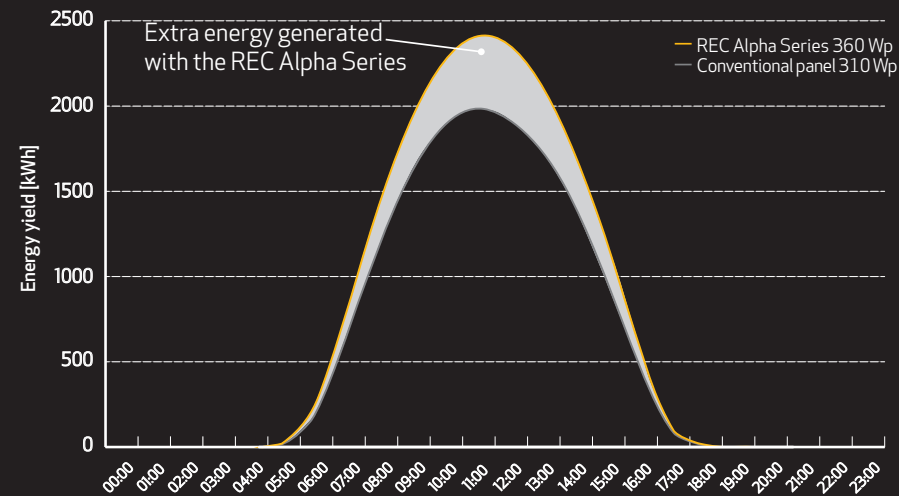
Exceptional quality

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

GREATER YIELDS FROM DAWN TO DUSK

The REC Alpha Series packs in more energy than ever before. With no LID, a leading temperature coefficient and its high power density, it is ideal for increasing energy yields and making the most of available rooftop space.

Average Daily Energy Production Comparison Over One Year

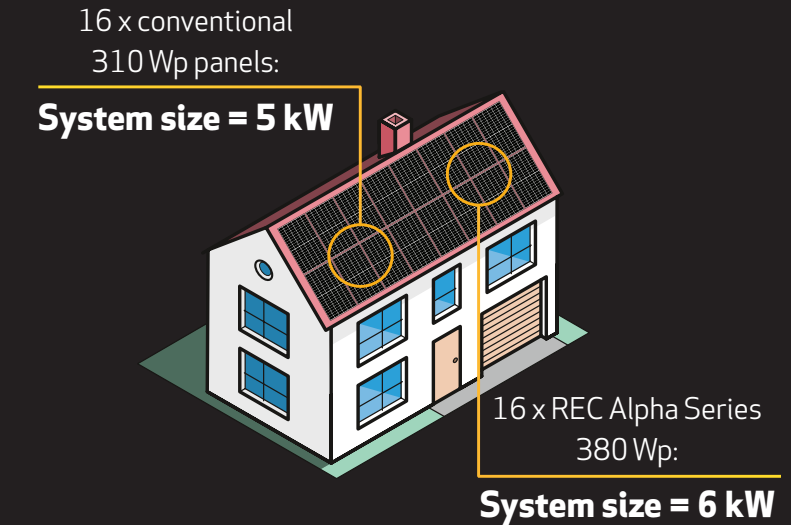


Calculations based on simulation results for full calendar year, based on an 8 kW system in Palm Springs, CA, USA. Peak REC Alpha Series energy yield difference at midday: +21%, with an overall greater annual yield of 17%. Performance may vary dependent on location.

**+20%
MORE
WITH THE
REC ALPHA!**

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 gives you 1 kW more power than conventional panels for more energy and more savings.

15% MORE WARRANTED POWER AFTER 25 YEARS

REC's consistently low claims rate justifies outstanding warranty terms. Our warranty offering reflects this leadership and supports our premium product quality.



Exclusively offered by REC Certified Solar Professionals, the REC ProTrust Warranty gives 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*

MAKE MAJOR REDUCTIONS TO YOUR CO₂ FOOTPRINT

A 6 kW REC Alpha Series installation generates over 7,200 kWh of clean energy per year, cutting the CO₂ emissions of a home by 4.7 tons per year*, equivalent to:

84 trees planted and grown over 10 years

CO₂ sequestered by **6 acres** of forest per year

1.8 tons of waste recycled instead of entering landfill

12,500 miles in a family car

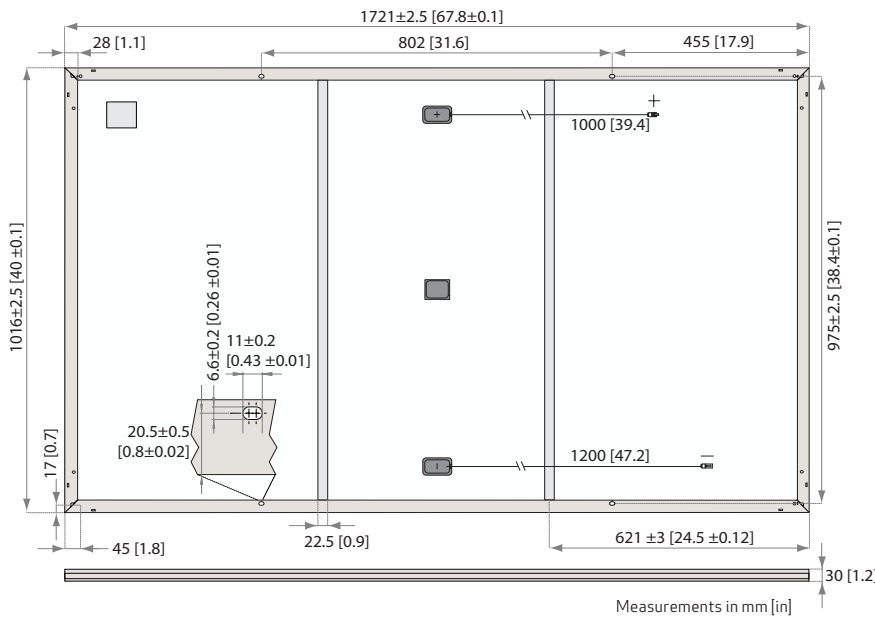
Charging a phone **650,000** times

2.5 tons of coal burnt for power



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

*Values may vary dependent on location



Measurements in mm [in]

GENERAL DATA

Cell type:	120 half-cut bifacial cells with REC heterojunction cell technology 6 strings of 20 cells in series	Connectors:	Stäubli MC4 PV-KBT4/KST4, 12AWG (4mm ²) in accordance with IEC 62852 IP68 only when connected
Glass:	0.13 in (3.2 mm) solar glass with anti-reflection surface treatment	Cable:	12AWG (4mm ²) PV wire, 39+47 in (1+1.2 m) accordance with EN 50618
Backsheet:	Highly resistant polymeric construction	Dimensions:	678x40x1.2 in (1721x1016x30 mm)
Frame:	Anodized aluminum	Weight:	43 lbs (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
STC Nominal Power Voltage - V _{MPP} (V)	36.7	37.1	37.4	37.8	38.1
STC Nominal Power Current - I _{MPP} (A)	9.82	9.85	9.90	9.94	9.98
Open Circuit Voltage - V _{OC} (V)	43.9	44.0	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/sq ft)	19.1	19.4	19.7	19.9	20.2
Panel Efficiency (%)	20.6	20.9	21.2	21.4	21.7
NMOT Power Output - P _{MAX} (Wp)	274	278	282	286	289
NMOT Nominal Power Voltage - V _{MPP} (V)	34.6	35.0	35.2	35.6	35.9
NMOT 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 AM 1.5, irradiance 10.75 W/sq ft (1000 W/m²), temperature 77°F (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 AM 1.5, irradiance 800 W/m², temperature 68°F (20°C), windspeed 3.3 ft/s (1 m/s). * Where xxx indicates the nominal power class (P_{MAX}) at STC above. Bifaciality coefficient of up to P_{MAX} ~ 4%.

CERTIFICATIONS

IEC 61215:2016, IEC 61730:2016, UL 1703, UL 61730	
IEC 62804	PID
IEC 61701	Salt Mist
IEC 62716	Ammonia Resistance
UL 1703	Fire Type Class 2
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		RECProTrust	
	No	Yes	Yes	Yes
Installed by an REC Certified Solar Professional	No	Yes	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 (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

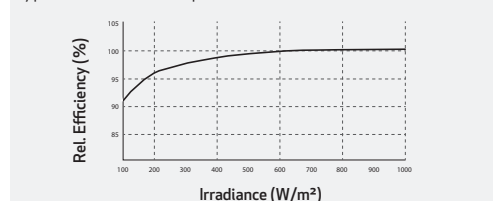
TEMPERATURE RATINGS*

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



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.

