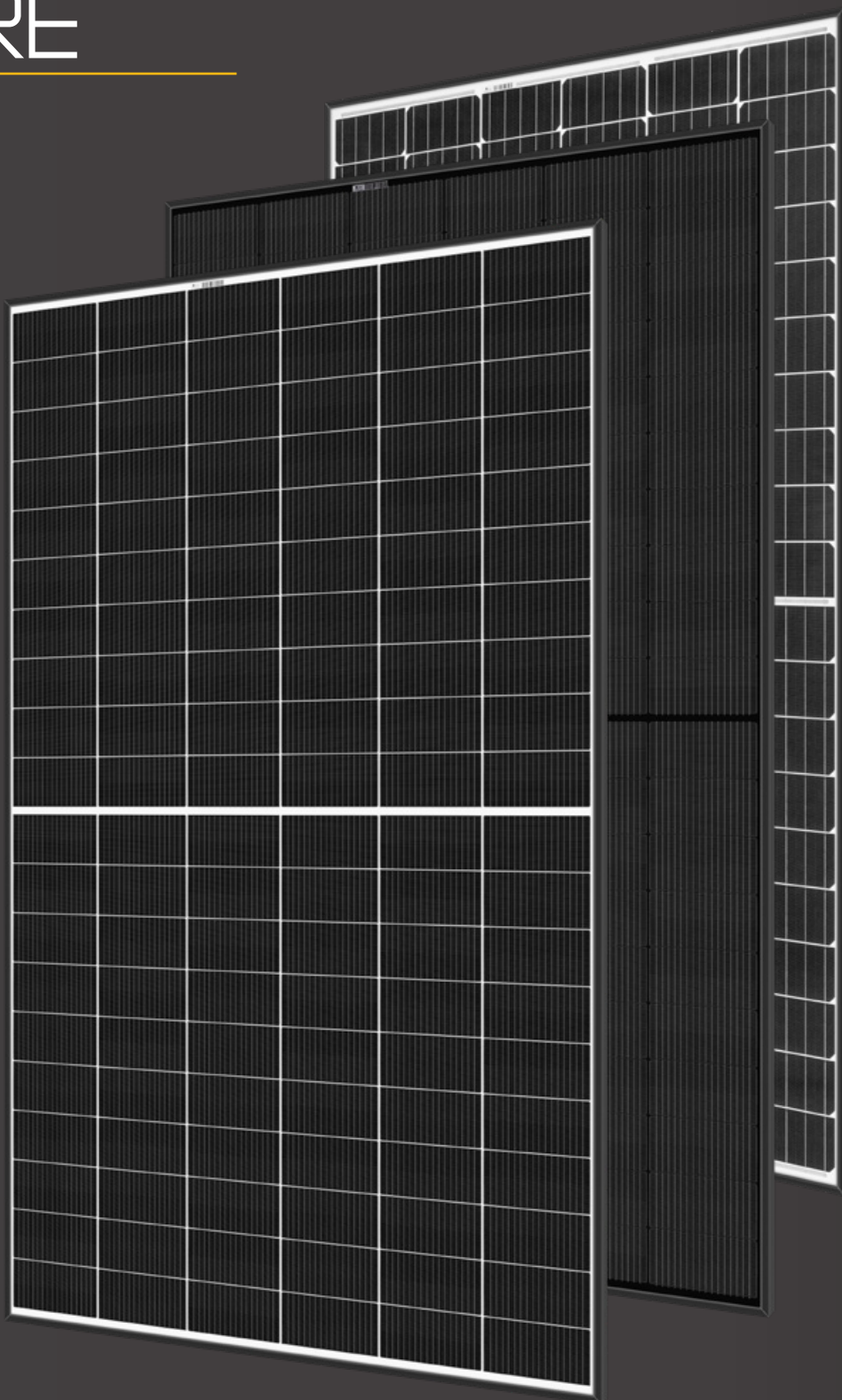


SOLAR'S MOST TRUSTED



REC PRODUCT BROCHURE

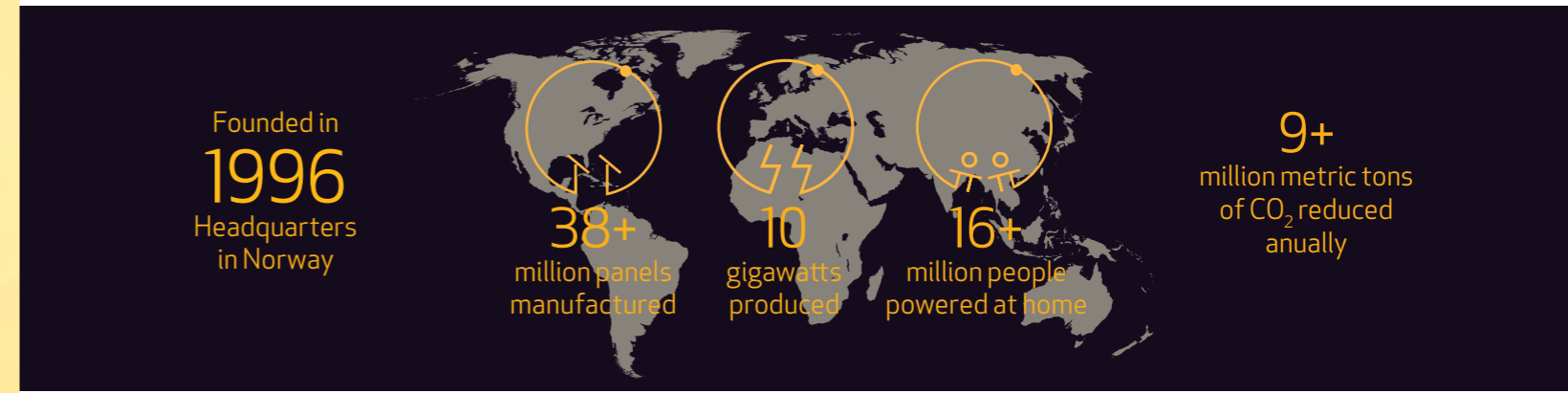




REC - SOLAR'S MOST TRUSTED

REC - A TRUSTED PARTNER

REC is an international, pioneering, solar energy company with Scandinavian heritage and a strong reputation across the world. Dedicated to bringing clean solar energy to everyone with our reliable and high-end products, 'Solar's Most Trusted' is not just a slogan – it is a promise we live up to every day in delivering outstanding, high quality products to our customers.



REC - EMPOWERING CONSUMERS

REC solar panels are already powering all parts of our lives - homes, schools, sport stadiums, hospitals, supermarkets and airports to name but a few. We believe solar is the present and future.

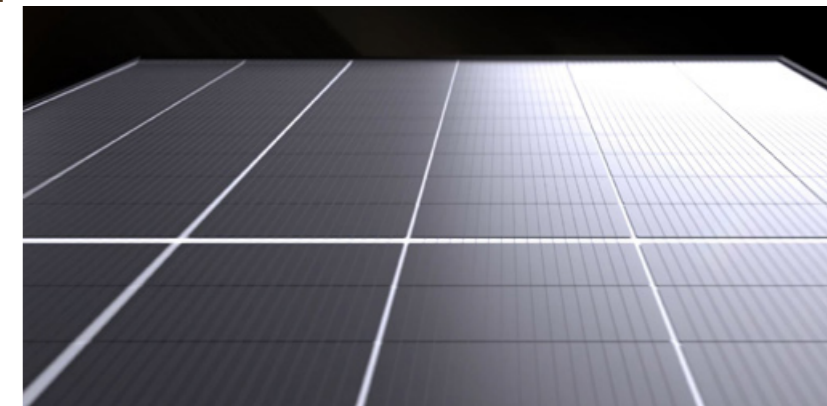


REC - A DRIVEN FACILITATOR

REC makes it possible to power your own home or business independently and efficiently. With its iconic and cutting-edge products, REC helps you generate more energy and make significant savings on electricity bills.

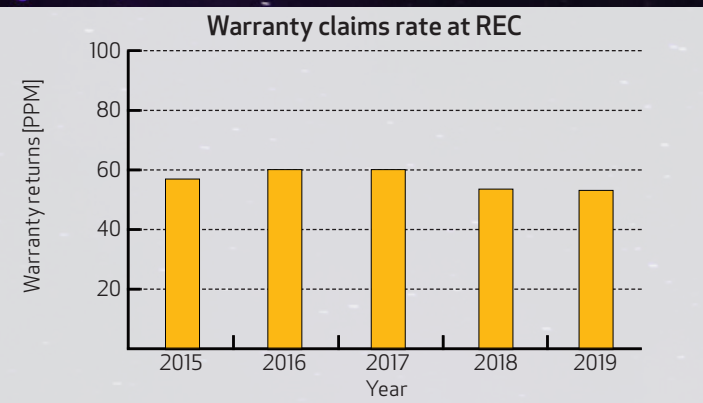
REC - A FRONT-RUNNING INNOVATOR

Innovation is in REC's DNA: constantly leading the way in high efficiency and powerful products. REC was the first company to introduce half-cut cell technology into multicrystalline panel production and the first to apply its iconicTwin design for extra power and efficiency.



REC QUALITY

Supplying customers with the very best products is key to everything we do at REC. For us, this means high levels of quality at every stage of production, shipping and sales, right through to the final installation.

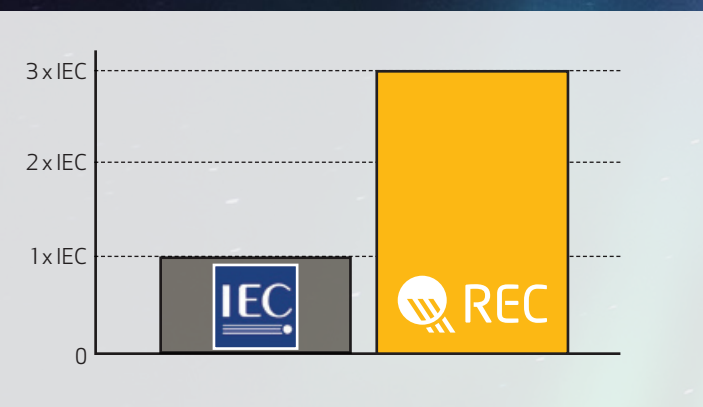


LOW PRODUCT CLAIMS RATE

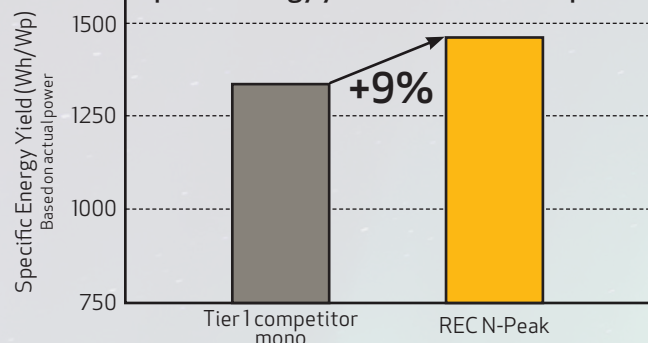
REC panels consistently demonstrate a low number of product defects according to published statistics. Calculated as parts per million panels produced, REC's claims rate is one of the lowest in solar.

OUTPERFORMING COMPETITORS

REC panels have been tested by third parties against competitors to directly compare performance. Testing shows REC outperforms competitive products in all climatic conditions, confirming our dedication to quality.



Specific energy yield over a 12-month period



Source: Comparative Outdoor Module Test, SERIS, Singapore, 2019

INTERNAL QUALIFICATION TO 3 X IEC

Before even hitting the production lines, REC products are tested to at least 3 times the international quality standards for solar panels. This is central to our development program and ensures that all REC panels are robust enough for any climate.

REC WARRANTY

REC's ProTrust Warranty package covers product, performance, and labor – and is exclusively offered by REC Certified Solar Professional installers. This means unprecedented savings, more economic security, and greater energy autonomy for consumers.



PRODUCT

Covers any panel defects and promises superior quality for at least 20 years. All panels are eligible for a **+5 year product warranty extension**, as part of the REC ProTrust Warranty.

PERFORMANCE

Ensures that REC panels perform exactly as expected to – every year for 25 years. Higher warranted power and higher annual yields, enable greater ROI predictability.

LABOR

Unique to the REC ProTrust Warranty, this gives added protection in the unlikely event that an REC panel needs to be serviced.

The table below provides an overview of REC's leading warranty by system size:

REC warranty type	REC PROTRUST WARRANTY		REC'S LEADING STANDARD WARRANTY
Installer group	Exclusive to REC Certified Solar Professional installers		All installers
System size	<25 kW	25-500 kW	All
Product Warranty	25 years*	25 years*	20 years
Labor Warranty	25 years*	10 years*	0

Performance Warranty	Minimum power in year 1	Year 2-25 maximum annual degradation	Guaranteed % of nameplate power in year 25
REC Alpha Series	98.0%	0.25%	92.0%
REC Alpha 72 Series			
REC N-Peak Series	97.5%	0.5%	86.0%
REC TwinPeak Series (60-cell format)		0.7%	80.7%
REC TwinPeak Series (72-cell format)		0.5%	85.5%

*Installations must be registered via REC SunSnap app or REC Certified Solar Professional Portal

Visit the REC Download Center for details of each product's warranty conditions: www.recgroup.com/warranty

AWARDS & RECOGNITION





VENICE, ITALY

World's first REC Alpha Series installation.

6.3 kW
System size

2019
year installed

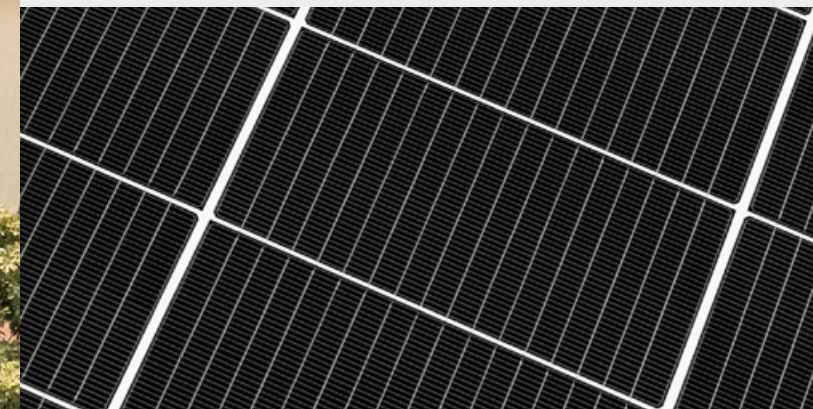
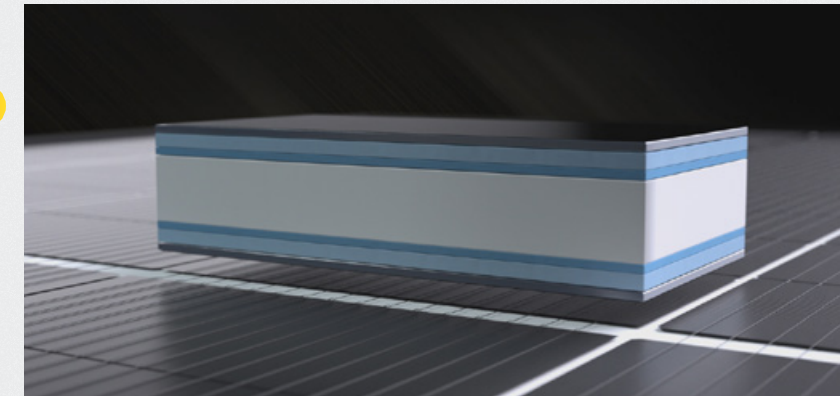
6.2 METRIC TONS
CO₂ emissions saved annually

REC ALPHA TECHNOLOGY

Leveraging the most cutting-edge cell architecture in combination with an advanced connection technology, the REC Alpha Series pushes power, efficiency, and reliability to a whole new level. Delivering high power density in a 60-cell format, the Alpha maximizes power, savings and greatly increases the customer's energy autonomy.

Heterojunction Cell Technology

A heterojunction cell combines all the advantages of crystalline and thin-film solar technologies in a single hybrid structure. This provides one of the most effective cell passivations on the market for high levels of power and efficiency - even in hot climates.



Advanced Connection Technology

REC's specially-developed, low temperature, solder and lead-free connection technology protects the cell from thermal stress during production for improved quality. With over 1600 contact points per cell, the Alpha dramatically improves current flow to produce even more power!

REC's Twin Design

REC's iconic Twin design delivers a significant power boost compared to conventional panels, as well as improving performance in shaded conditions.



Super Strong Frame

With its distinctive frame, including two support bars across the rear, the REC Alpha Series is able to withstand loads, e.g., snow, of up to 7000 Pa, making it stronger and more robust than competitive products. The innovative frame protects against deformation, increasing reliability and long-term high power.

REC ALPHA SERIES

60 CELL

380 WP POWER

Over 20% more power on your roof

- Most advanced cell structure for high efficiency
- Maximized power for maximum savings
- High power density: get the most out of limited spaces

Advanced cell connection technology

- Low temperature production for longer-lasting quality
- Eliminates invasive soldering process
- Lead-free cells and connections

Leading temperature performance

- Leading temperature coefficient for more production in hot climates
- Keeps cells working efficiently, even at the hottest times

Protects from initial drop in installed power

- N-type cell technology protects against light induced degradation (LID)
- You get the installed power you paid for with no drop-off

Super strong frame

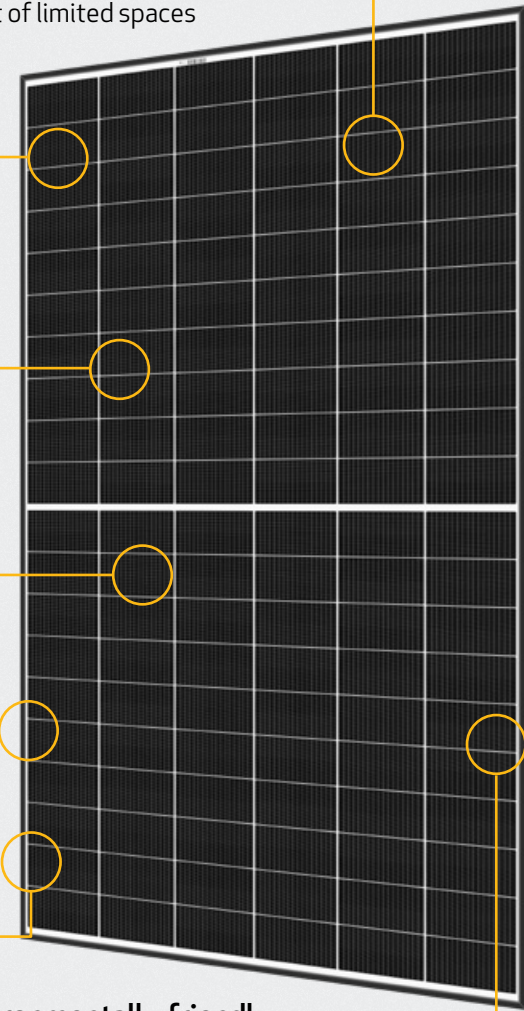
- Improved durability for a lifetime of high power
- 1.2 in height for lightweight and compact installation
- Ensures long-lasting high power

Exceptional quality

- Greatly reduced risk of defects through superior build quality
- State of the art, highly automated production

Environmentally-friendly

- Colossal 81% reduced lead content
- Advanced manufacturing minimizes carbon footprint



REC ALPHA 72 SERIES

72 CELL

450 WP POWER

Reduces overall installation costs

- Larger 72-cell format for faster installation
- Fewer rails and fewer clamps for reduced BOS cost, improving rate of return on larger systems

More power

- Most advanced cell structure for high efficiency
- Maximized power for maximum savings
- High power density: get the most out of limited spaces

Advanced cell connection technology

- Low temperature production for longer-lasting quality
- Eliminates invasive soldering process
- Lead-free cells and connections

Leading temperature performance

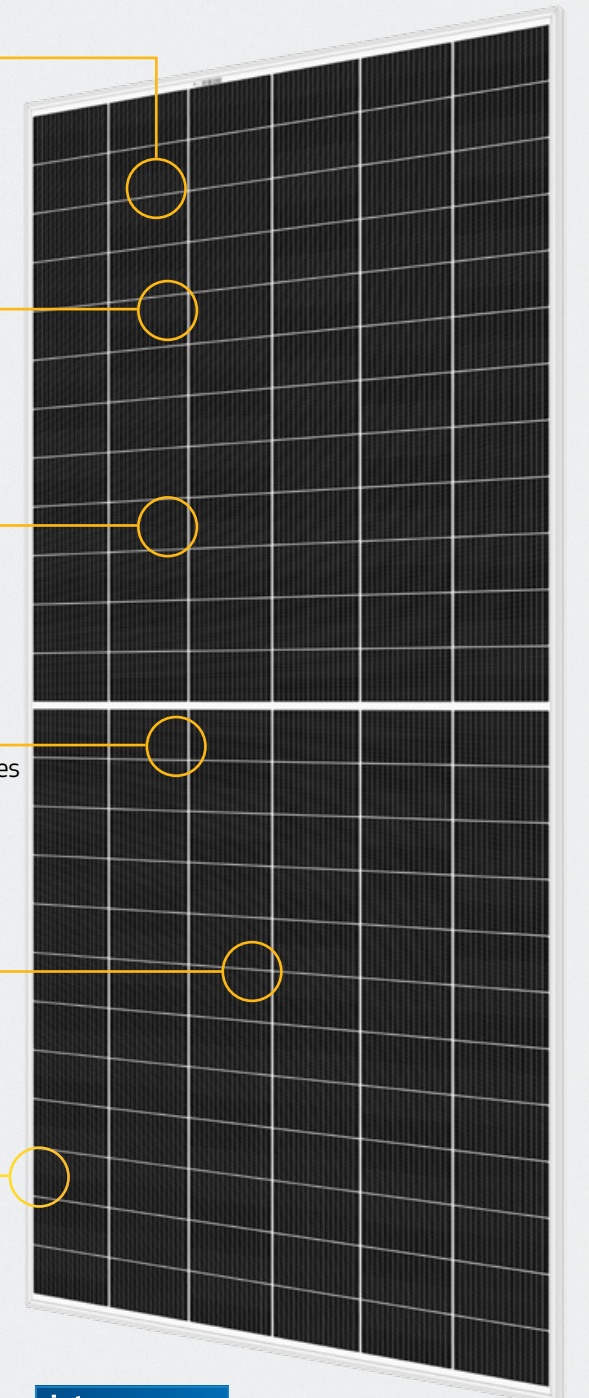
- Leading temperature coefficient for more production in hot climates
- Keeps cells working efficiently, even at the hottest times

Protects from initial drop in installed power

- N-type cell technology protects against light induced degradation (LID)
- You get the installed power you paid for with no drop-off

Guaranteed better durability

- Leading warranty guarantees 92% power after 25 years
- Super strong frame better protects against the elements
- Lasting high power thanks to industry leading quality



Dimensions:	67.8 x 40 x 1.2 in
Weight:	43 lbs
Efficiency:	21.7 %
Power Density:	20.2 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.26 %/°C



Dimensions:	81.2 x 40 x 1.2 in
Weight:	52 lbs
Efficiency:	21.3 %
Power Density:	19.8 W/sq ft
Max. system voltage:	1500 V
Temperature coefficient:	-0.26 %/°C



REC ALPHA BLACK SERIES

60 CELL

375 WP POWER

Stylish looks

Full-black design with practically invisible cell connections for the most elegant feature on your roof

Over 20% more power on your roof

- Most advanced cell structure for high efficiency
- Maximized power for maximum savings
- High power density: get the most out of limited spaces

Advanced cell connection technology

- Low temperature production for longer-lasting quality
- Eliminates invasive soldering process
- Lead-free cells and connections

Leading temperature performance

- Leading temperature coefficient for more production in hot climates
- Keeps cells working efficiently, even at the hottest times

Protects from initial drop in installed power

- N-type cell technology protects against light induced degradation (LID)
- You get the installed power you paid for with no drop-off

Super strong frame

- Improved durability for a lifetime of high power
- 1.2 in height for lightweight and compact installation
- Ensures long-lasting high power

Exceptional quality

- Greatly reduced risk of defects through superior build quality
- State of the art, highly automated production

Environmentally-friendly

- Colossal 81% reduced lead content
- Advanced manufacturing technology minimizes carbon footprint

Dimensions:	67.8 x 40 x 1.2 in
Weight:	43 lbs
Efficiency:	21.4 %
Power Density:	19.9 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.26 %/°C



MUNICH, GERMANY

7.0 kW
System size

2019
year installed

6.9 METRIC TONS
CO₂ emissions saved annually



SCOTTSDALE, AZ, USA

21.8 kW System size

2019 year installed

27 METRIC TONS CO₂ emissions saved annually

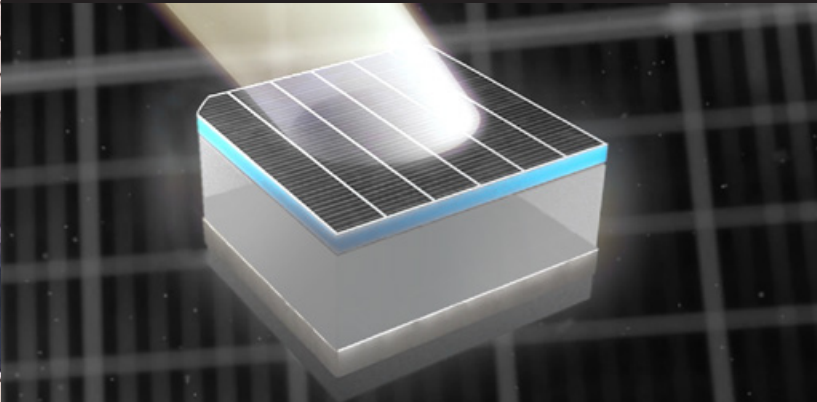
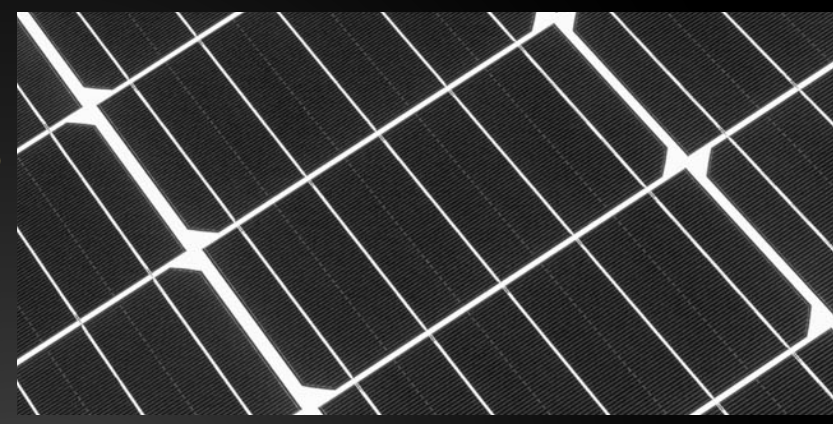


REC N-PEAK TECHNOLOGY

REC N-Peak Series solar panels feature high efficiency n-type cell technology for excellent performance. Achieving watt classes of up to 330 Wp, the REC N-Peak Series enables you to pack high power into a limited space and achieve higher capacity with fewer panels.

N-Type Monocrystalline Cells

The negatively charged treatment (doping) of the cells creates one of the most efficient crystalline cell technologies for high light absorption and efficiency.

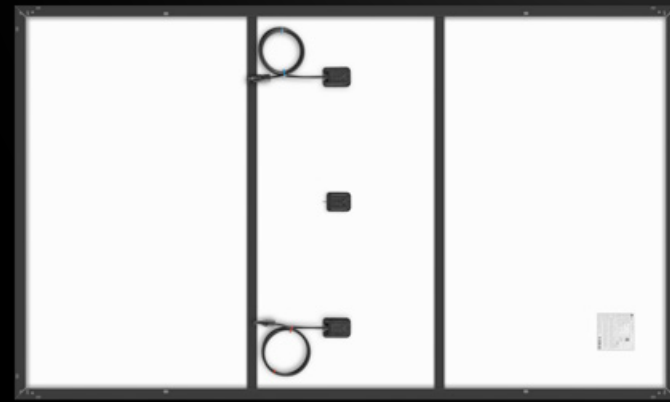
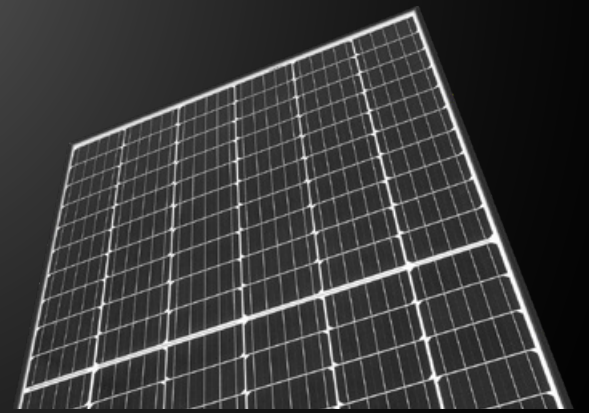


PERT Technology

Like a barrier layer across the rear of the cell, PERT helps keep the cell at a cool operating temperature and improves overall efficiency for higher yields.

REC's Twin Design

REC's revolutionary Twin design delivers a significant power boost compared to conventional panels, as well as improving performance in shaded conditions.



Super Strong Frame

With its distinctive frame, including two support bars across the rear, the REC N-Peak offers more strength and robustness under load than standard products, protecting it from deformation and increasing long-term reliability.

REC N-PEAK SERIES

60 CELL

330 WP POWER

Highly efficient crystalline cell technology

- N-type monocrystalline cell base for high light absorption
- Half-cut cells produce more power
- Produced on REC's state of the art, automated production lines

Improved temperature performance

- Low temperature co-efficient for more energy generation when the sun is strongest
- PERT technology keeps the cell at a cool operating temperature

Protects from initial drop in installed power

- N-type cell technology protects against light induced degradation (LID)
- You get the installed power you paid for without drop-off

Increased energy yield when shaded

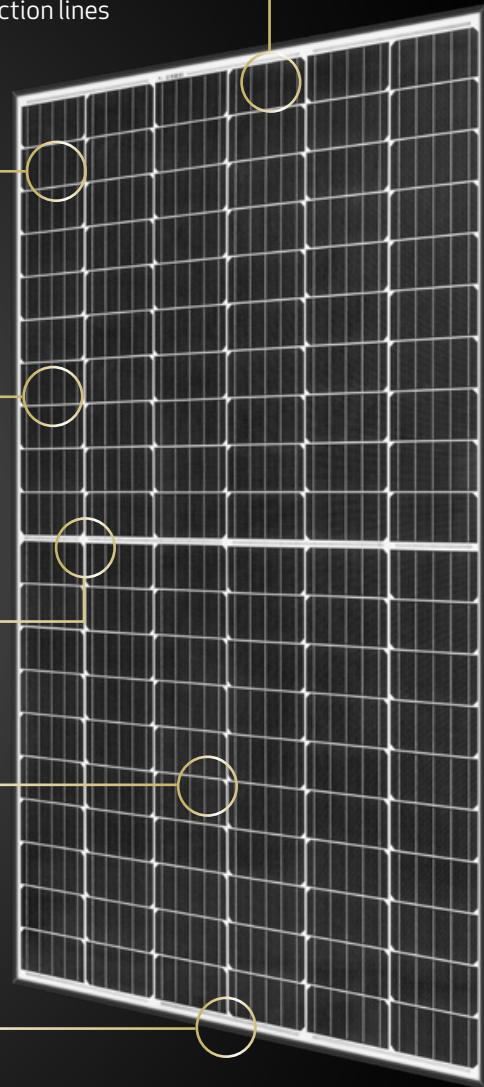
- REC's Twin design improves performance in shaded conditions

Lower internal resistances

- Decreases internal stress through reduced electron congestion
- Improved reliability efficiency and durability

Super Strong Frame

- Improved durability for a lifetime of high power
- 1.2 in height for lightweight and compact installation



REC N-PEAK BLACK SERIES

60 CELL

375 WP POWER

Stylish looks

Full-black design for a seamless appearance on your roof

Highly efficient crystalline cell technology

- N-type monocrystalline cell base for high light absorption
- Half-cut cells produce more power
- Produced on REC's state of the art, automated production lines

Improved temperature performance

- Low temperature co-efficient for more energy generation when the sun is strongest
- PERT technology keeps the cell at a cool operating temperature

Protects from initial drop in installed power

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Increased energy yield when shaded

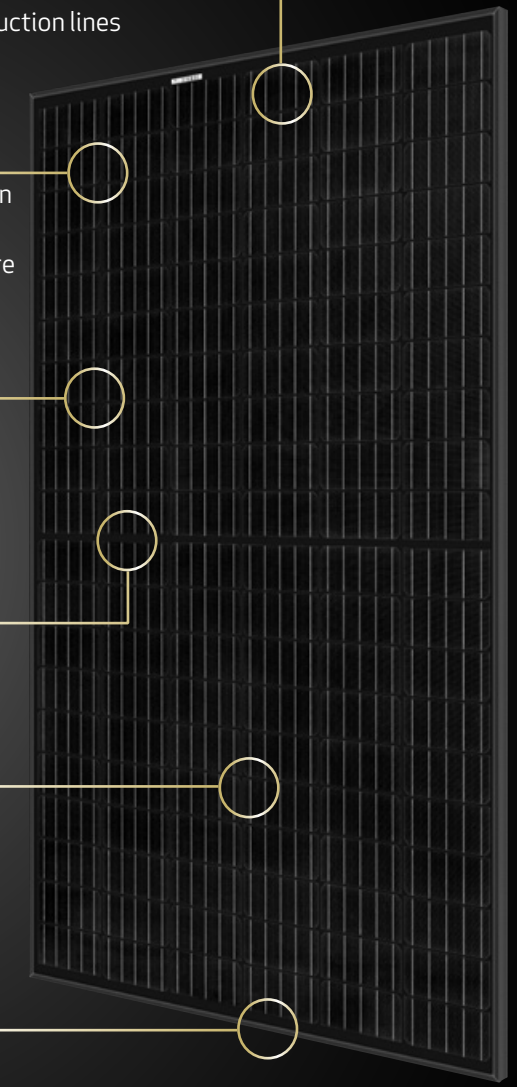
- REC's Twin design improves performance in shaded conditions

Lower internal resistances

- Decreases internal stress through reduced electron congestion
- Improved reliability efficiency and durability

Super Strong Frame

- Improved durability for a lifetime of high power
- 1.2 in height for lightweight and compact installation



Dimensions:	65.9 x 39.25 x 1.1 in
Weight:	39.7 lbs
Efficiency:	19.8 %
Power Density:	18.3 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.35 %/°C



Dimensions:	65.9 x 39.25 x 1.1 in
Weight:	39.7 lbs
Efficiency:	19.5 %
Power Density:	18.0 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.35 %/°C



CHÂTEAUNEUF DU RHÔNE, FRANCE

36 kW
System size

2010
year installed

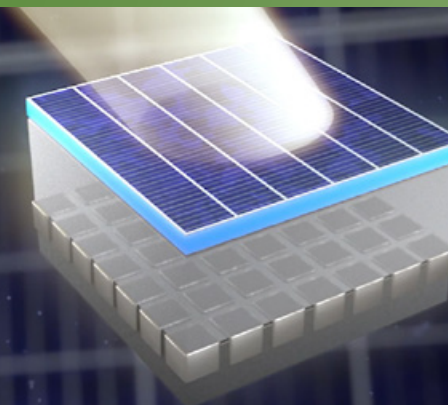
27^{METRIC} TONS
CO₂ emissions saved annually

REC TWIN TECHNOLOGY

REC's Twin Technology is an iconic advancement in crystalline solar panel technology that delivers a power boost of up to 20 Wp per panel compared to standard multicrystalline panels.

Half-Cut Cells

REC's Twin cells are rectangular in shape, contrasting with standard full-square cells. Cutting cells this way reduces internal resistance, so cells work more efficiently and provide even more power than ever!

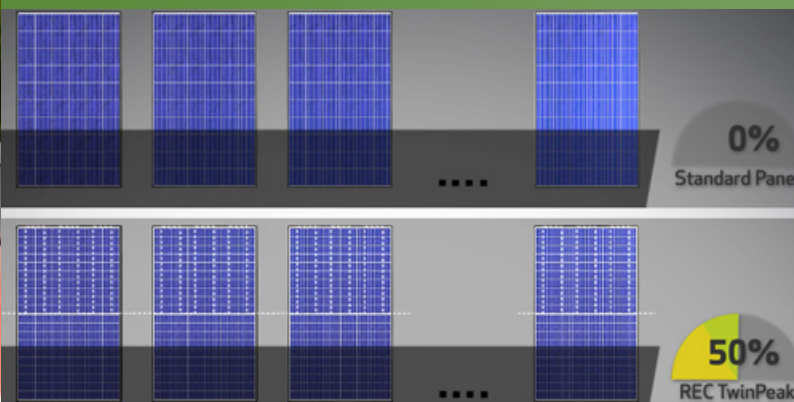


PERC Technology

PERC is a special layer in the cell which helps keep it cooler and working more efficiently. It helps the cell absorb more light throughout the day, increasing production in low light conditions, e.g., under cloud and at dawn and dusk, for higher overall energy yield.

Split Junction Box

The innovative 3-part junction box used in REC's Twin design is key to the distinctive layout of our products. The smaller boxes keeping the cells around 15°C cooler than a single box. With less retained heat, the whole panel is more reliable and efficient.



Improved Performance When Shaded

Splitting the panel into two sections creates an advantage under certain types of shading e.g., between rows. Where a conventional panel fully stops generation even if only a small part is shaded, REC's Twin design ensures continued production, improving overall yield.

REC TWINPEAK 2 MONO SERIES

60 CELL

72 CELL

Larger format helps reduce balance of system costs and the 30 mm frame makes this the lightest 72-cell panel on the market

330 WP POWER 60 CELL

400 WP POWER 60 CELL

More power through reduced resistance

- Halfcut cells for more power
- Better electron flow for stable power

Improved performance in shaded conditions

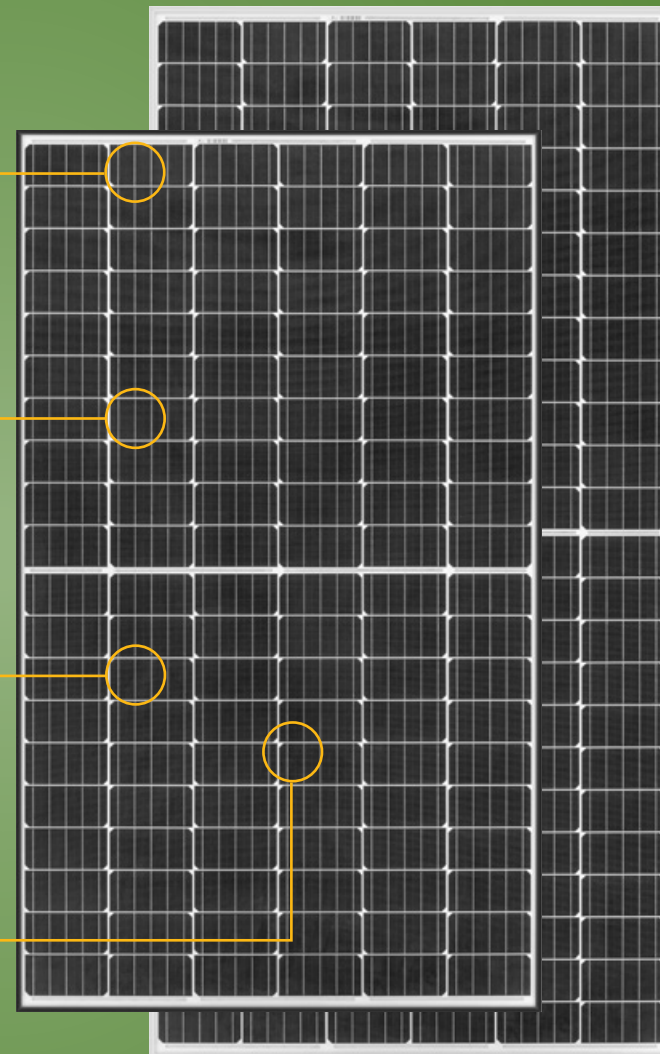
- REC's iconic Twin design generates more energy
- When one half is shaded, the other half can still generate electricity

Darker appearance

- Monocrystalline cells for a uniform dark blue color and high efficiency

Reliable production

- Lower operating temperature for better reliability
- Reduced chance of defects due to lower operating temperature



REC TWINPEAK 3 MONO SERIES

60 CELL

330 WP POWER 60 CELL

Stylish looks

Full-black design for a seamless appearance on your roof

More power through reduced resistance

- Halfcut cells for more power
- Better electron flow for stable power

Improved performance in shaded conditions

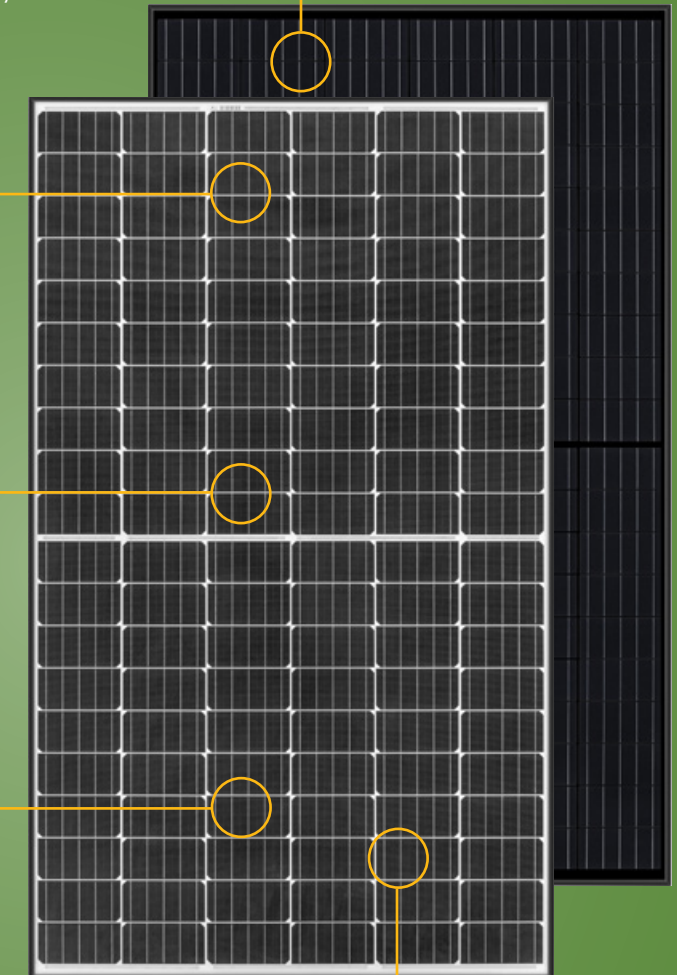
- REC's iconic Twin design generates more energy
- When one half is shaded, the other half can still generate electricity

Darker appearance

- Monocrystalline cells for a uniform dark blue color and high efficiency

Reliable production

- Lower operating temperature for better reliability
- Reduced chance of defects due to lower operating temperature



Dimensions:	65.9 x 39.25 x 1.5 in
Weight:	40.8 lbs
Efficiency:	19.8 %
Power Density:	18.3 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.37 %/°C



Solar+Power
award winner

Dimensions:	66.3 x 39.25 x 1.5 in
Weight:	41.7 lbs
Efficiency:	20.3 %
Power Density:	18.9 W/sq ft
Max. System Voltage:	1000 V
Temperature Coefficient:	-0.37 %/°C



REC REFERENCE INSTALLATIONS



SUPHANBURI, THAILAND
REC PEAK ENERGY SERIES

72 MW System size
2014 year installed
110223 METRIC TONS CO₂ emissions saved annually



COBBITTY, NSW, AUSTRALIA
REC TWINPEAK 2 MONO SERIES

10 kW System size
2019 year installed
16 METRIC TONS CO₂ emissions saved annually

SCOTTSDALE, AZ, USA
REC N-PEAK SERIES

21.8 kW System size
2019 year installed
25 METRIC TONS CO₂ emissions saved annually



SAN FRANCISCO, CA, USA
REC TWINPEAK 25 72 SERIES

905 kW System size
2019 year installed
927 METRIC TONS CO₂ emissions saved annually



BATTICALOA, SRI LANKA
REC TWINPEAK 72 SERIES

1.6 MW System size
2017 year installed
1175 METRIC TONS CO₂ emissions saved annually



RUDAWA, POLAND
REC TWINPEAK BLACK SERIES

9.9 kW System size
2016 year installed
12 METRIC TONS CO₂ emissions saved annually

KAUA'I, HI, USA
REC PEAK ENERGY SERIES

14.5 MW System size
2015 year installed
12731 METRIC TONS CO₂ emissions saved annually



DEN BOSCH, NETHERLANDS
REC PEAK ENERGY SERIES

921 kW System size
2013 year installed
656 METRIC TONS CO₂ emissions saved annually



REC CERTIFIED SOLAR PROFESSIONALS

The REC Certified Solar Professional Program was created with installers and end customers in mind, providing numerous advantages to both.

Not every installer can call themselves an 'REC Certified Solar Professional': members of the Program are carefully selected to undergo a unique installer certification program. Through this, we ensure solar installers are equipped with the know-how and best practices to install REC panels and can in turn, assure end customers that in addition to high-quality REC solar panels, they will receive a high-quality solar installation.



QUALITY PRODUCT, QUALITY INSTALLATION

Knowing that not only is the solar panel of high quality, but also that the person installing it is highly skilled and trained by REC, gives end customers greater peace of mind for the quality of the installation.

ADDED COMFORT

Take comfort in knowing that your solar installer has been carefully selected, trained, and certified by REC. To be an 'REC Certified Solar Professional', the installer must be offering best-in-class service and reliability.

EXTENDED WARRANTY

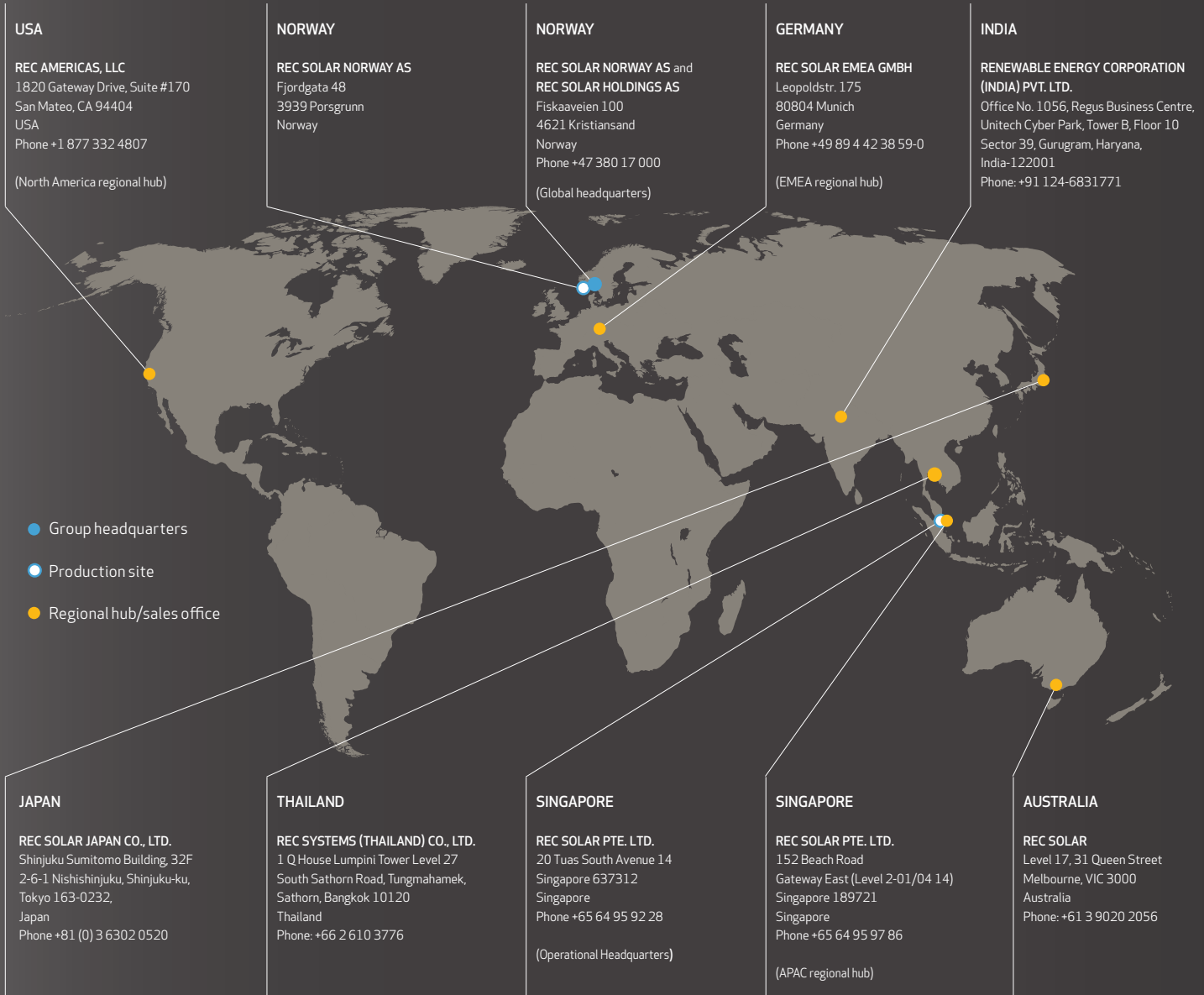
By choosing an REC Certified Solar Professional for your installation, you can benefit from REC's unique REC ProTrust Warranty package at no extra cost. The REC ProTrust Warranty gives you an extra 5 years product warranty cover (25 years total) and up to 25 year labor cover* in addition to REC's 25-year performance warranty.



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



GLOBAL PRESENCE



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.



www.recgroup.com

