



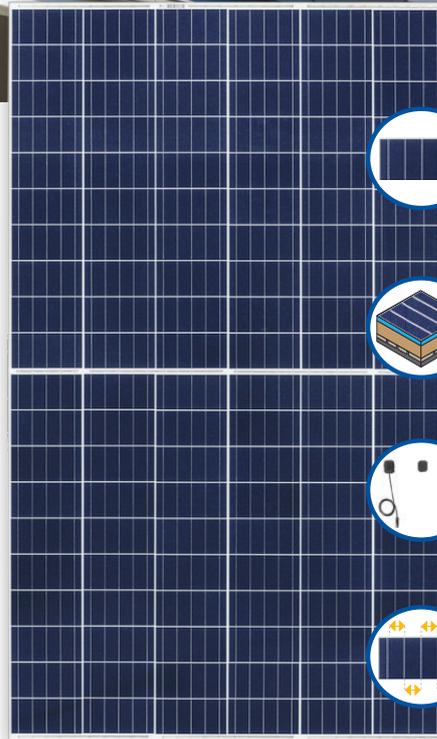
REC TWINPEAK 2 290W SOLAR PANELS

REC290TP2 - Premium Solar Panels with Superior Performance

Get more power out of the available space - Featuring an innovative design with high panel efficiency and increased power output per square metre, which means that in areas with limited space, such as rooftops, you can maximise the electricity generation capacity out of the available installation area.

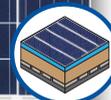
These panels combine four different technologies resulting in extra power output of over 12 Watts per panel, a class-leading efficiency of up to 17.4% and set new standards for polycrystalline solar panels.

TwinPeak 2 panels are split into two sections that generate electricity independently of each other, but combine again before the current exits the panel, increasing overall energy yield and installation profitability.



Half-Cut Cells

Laser-cut polysilicon cells reduce internal resistance for higher power output, higher efficiency and increased reliability.



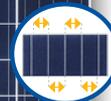
Passivated Emitter Rear Cell

Captures more wavelengths of light through mirror-like architecture for higher efficiency.



Split Junction Box

The three parts enable the new cell layout for a higher energy yield, while reducing heat and increasing reliability.



Five Bus Bars

A shorter distance for electrons to travel, vastly improves the current flow, reducing resistance in the cell and increasing efficiency.



**IMPROVED
PERFORMANCE IN
SHADED CONDITIONS**

HOW YOU BENEFIT



HIGH EFFICIENCY

More power output per m² with high efficiency of up to 17.4%.



INNOVATIVE

Twin Peak Panels combine four different technologies for increased light capture.



REDUCED COSTS

Fewer panels and components are required due to high efficiency, reducing installation times and overall costs.



SOLAHART WARRANTY

Enjoy a 10-year warranty on panels and a 5-year warranty on labour, for peace of mind.*

Technical Data

REC TWINPEAK 2 - 290W SERIES - PREMIUM SOLAR PANELS

Electrical Data	
Nominal power - P _{MPP}	290 Wp
Watt class sorting	-0/+5 W
Nominal power voltage - V _{MPP}	32.1 V
Nominal power current - I _{MPP}	9.05 A
Open circuit voltage - V _{oc}	38.8 V
Short circuit current - I _{sc}	9.58 A
Panel efficiency	17.4 %

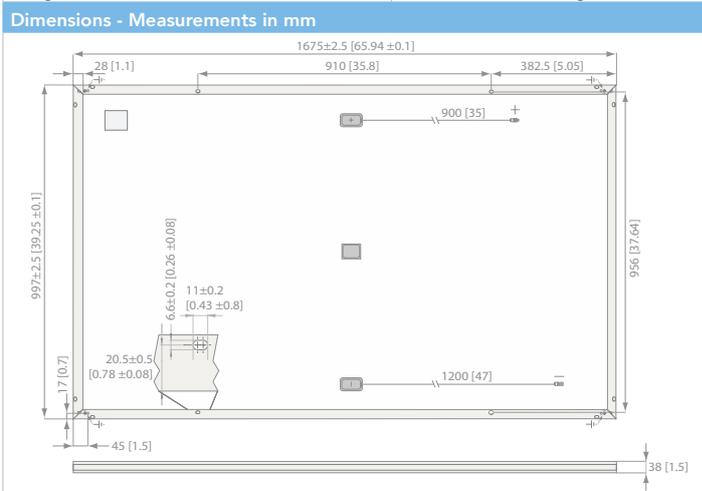
Values at standard test conditions STC (airmass AM1.5, irradiance 1000W/m², cell temperature 25°C).

Temperature Ratings	
Nominal operating cell temperature (NOCT)	44.6°C (±2°C)
Temperature coefficient of P _{MPP}	-0.36 % / °C
Temperature coefficient of V _{oc}	-0.30 % / °C
Temperature coefficient of I _{sc}	0.066 % / °C

Maximum Ratings	
Operational temperature	-40 ... + 85°C
Maximum system voltage	1000 V
Maximum series fuse rating	25 A
Maximum reverse current	25 A

General Data	
Cell type	120REC HC multi-crystalline - 6 strings of 20 cells
Glass	3.2mm solar glass with anti-reflective surface treatment
Back sheet	Highly resistant polyester polyolefin
Frame	Anodised aluminium / Anodised aluminium (black)
Junction box	3-part with bypass diodes, IP67 rated 4mm ² solar cable, 0.9 m + 1.2 m
Connectors	Multi-Contact MC4 (4 mm ²)
Solahart Warranty	10 years on panels - 5 years on labour *

Mechanical Data	
Dimensions (H x W x D)	1675 x 997 x 38 mm
Area	1.67 m ²
Weight	18.5 Kg

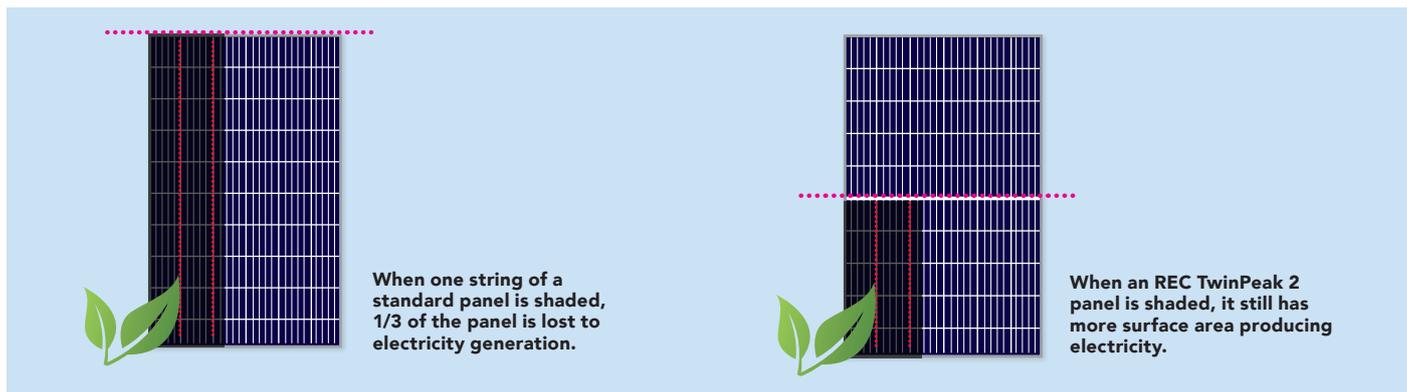


Standard Compliance Certifications	
The REC TwinPeak Series is certified to IEC 61215, IEC 61730, UL 1703, and JET Pvm. It has also been certified for: Salt Mist and Ammonia Corrosion Resistance, Potential Induced Degradation Resistance and Ignitability Resistance	
IEC 6125, IEC 61730 & UL 1703. IEC62804 (PID Free), IEC 61701 (Salt Mist Level 6), IEC 62716 (Ammonia Resistance), ISO 11925-2 (Ignitability Class E), UNI 8457/9174 (Class A), ISO 9001:2015, ISO 14001, OHSAS 18001	

PUTTING STANDARD PANELS IN THE SHADE

One of the major advantages of the REC TwinPeak 2 Series compared to standard panels, is the ability to generate electricity even when partially shaded. This helps you to produce more energy over time from your installation.

If any part of a standard panel is shaded, it will lose at least one string, i.e. 1/3 of its power production and it could stop generating electricity completely if shaded across the width of the panel.



REC TwinPeak 2 Series Premium solar panels use unique and innovative technologies, and ground breaking layout, to give you a high efficiency and high power output product. They are split into two twin sections that generate electricity independent to each other, but combine again before the current exits the panel. This helps them to continue producing electricity in the non-shaded section even at times of reduced irradiance on the panel, increasing overall energy yield and installation profitability.

By delivering more power output per square metre, fewer REC TwinPeak 2 panels are required to achieve the same power generation capacity. This means quicker installation times and fewer components such as clamps and racks - all reducing overall costs.

*For full details see Solahart Owner's Guide & Installation Instructions.