

REC TwinPeak 2 - 290W Series

REC290TP2 - PREMIUM SOLAR PANELS WITH SUPERIOR PERFORMANCE

GET MORE POWER OUT OF THE AVAILABLE SPACE

Half Cut Cells

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

Passivated Emitter Rear Cell

New generation of cell technology captures more wavelengths of light through mirror-like architecture for higher efficiency

Split Junction Box

The three parts enable the innovative 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

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Featuring an innovative design with high panel efficiency and power output, which enables customers to get the most out of the space used for the installation. It combines four different technologies resulting in extra power output per panel, a class leading efficiency of up to 17.4% and sets new standards for polycrystalline solar panels.

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



MORE POWER OUTPUT PER M² IMPROVED PERFORMANCE IN SHADED CONDITIONS



PID FREE



REDUCES BALANCE OF SYSTEM COSTS

REC TwinPeak 2 - 290W Series - Premium Solar Panels

Mechanical Data		
Dimensions	1675 x 997 x 38 mm	
Area	1.67 m ²	
Weight	18.5 Kg	

Electrical Data		
Nominal Power - P _{MPP} (Wp)	290	
Watt Class Sorting - (W)	0/+5	
Nominal Power Voltage - V _{MPP} (V)	32.1	
Nominal Power Current - I _{MPP} (A)	9.05	
Open Circuit Voltage - V _{oc} (V)	38.8	
Short Circuit Current - I _{sc} (A)	9.58	
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	
Max series fuse rating	25 A	
Max reverse current	25 A	

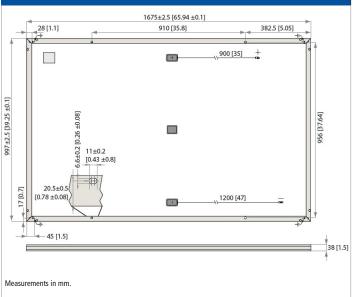
General Data

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
Junction Box	3-part with bypass diodes, IP67 rated 4mm ² solar cable, 0.9m + 1.2m
Connectors	Multi-Contact MC4 (4mm ²)
Solahart Warranty*	10 years (5 years labour) on panels*

Standard Compliance Certifications

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

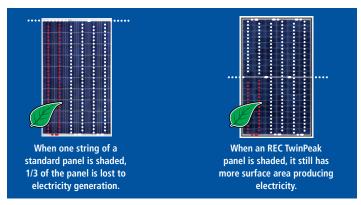
Dimensions



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 - 290W Series solar panels use unique and innovative technologies, and ground breaking layout, to give you a high efficiency and high power output product.

Get More Power out of the Available Space and Reduce Installation Time

Packing in technological advancements such as Half Cut Cells, Passivated Emitter Rear Cell, Split Junction Box and Four Bus Bars, means REC TwinPeak 2 solar panels give you more power output per square meter than standard 60-cell competition. This means that in areas with limited space, such as rooftops, you can fit more electricity generation capacity and make maximum use of available space.

By delivering more power output per square meter, 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 Owners Guide. Conditions apply. Specifications and designs included in this data sheet are subject to change without notice.

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