

290W Polycrystalline Solar Panel

This solar panel provides high efficiency and a 10-year product warranty. It has undergone 100% TUV standard flash testing and is CE, TUV, and UL certified.



Overview

High-Efficiency 290W Solar Solution

This 290W polycrystalline solar panel is engineered for reliable performance in both grid-tie and off-grid applications. Featuring a 72-cell design and robust anodized aluminum frame, it is built to withstand significant environmental loads, including heavy snow and wind. With 100% TUV standard flash testing and multiple international certifications, this panel offers a durable and sustainable energy solution for residential and commercial projects.

Certifications

Compliance Standards

CE, TUV, UL, ISO 9001, ISO 14001, OHSAS 18000, CQC, MCS, PV CYCLE

Electrical Specifications

Power Performance

290 W

Max Power (Pmax)

44.9 V

Open Circuit Voltage (Voc)

36.2 V

Max Power Voltage (Vmp)

8.61 A

Short Circuit Current (Isc)

8.01 A

Max Power Current (Imp)

Efficiency & Tolerance

- Conversion Efficiency: 15.2%
- Production Tolerance: 0-3%

Mechanical Specifications

Connectivity

- Junction Box: IP65 Rated
- Connector Type: Plug and socket (reverse polarity protected)
- Cable Length: 0.8-1.2m (customizable)

Physical Dimensions

1956mm x 992mm x 45mm

Weight

22.5 kg

Cell Configuration

72 cells (6x12)

Frame Details

Anodized Aluminum Alloy, 45mm thickness, hollow chamber profile with drainage

Environmental Limits

Load Resistance

5400 Pa

Snow Load

2400 Pa

Wind Load

Operating Temperature

-40°C to +85°C

Temperature Coefficients

Temperature Coefficients

Parameter	Value
NOCT	46°C ± 2°C
Current Coefficient	0.03 ± 0.01 %/K
Voltage Coefficient	-(0.35 ± 0.01) %/K
Power Coefficient	-(0.47 ± 0.03) %/K