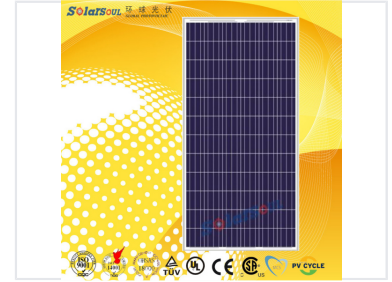


# 290W Polycrystalline Solar Panel

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