

# 280W Polycrystalline Solar Panel

This polycrystalline solar panel provides 280W of power. It is designed with high-quality polycrystalline silicon cells for efficient energy conversion.



## Overview

### High-Efficiency Polycrystalline Solar Solution

This 280W polycrystalline solar panel is engineered for high-efficiency energy conversion, making it suitable for a wide range of residential, commercial, and industrial applications. Built to rigorous TUV standards with 100% flash testing, it ensures reliable performance and durability in diverse environmental conditions. The module features a robust anodized aluminum alloy frame and is designed to withstand significant snow and wind loads, providing a sustainable and cost-effective renewable energy solution.

## Key Performance Metrics

### Performance Highlights

**280 W**

Maximum Power

**15.2 %**

Conversion Efficiency

**44.5 V**

Open Circuit Voltage

**8.45 A**

Short Circuit Current

## Electrical Specifications

### Electrical Data (STC)

Parameter	Value
Maximum Power (Pmax)	280W
Open Circuit Voltage (Voc)	44.5V
Maximum Power Voltage (Vmp)	36.0V
Short Circuit Current (Isc)	8.45A
Maximum Power Current (Imp)	7.78A
Production Tolerance	0-3%
Max System Voltage	1000V DC

## Mechanical & Construction

### Physical Specifications

- Dimensions: 1956mm x 992mm x 45mm
- Weight: 22.5kg
- Cell Configuration: 72 (6x12)
- Frame: Anodized Aluminum Alloy with hollow chamber and drainage
- Junction Box: IP65 Rated
- Cable Length: 0.8-1.2M (Customizable)

## Environmental & Temperature

### Temperature Coefficients

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

### Load Resistance

**5400 Pa**  
Snow Load

**2400 Pa**  
Wind Load

## Certifications & Compliance

### Standards & Compliance

CE, TUV, UL, 100% Flash Tested