

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