

280W Polycrystalline Solar Panel

This 280W polycrystalline solar panel is designed for enhanced aesthetics and superior energy conversion. It features robust construction and is suitable for a variety of on-grid and off-grid applications.



Overview

High-Performance Polycrystalline Solar Panel

This 280W polycrystalline solar panel is engineered for reliability and efficient energy conversion in both on-grid and off-grid applications. Built with high-quality raw materials, it features a robust aluminum alloy frame and tempered glass cover to withstand harsh environmental conditions. With a 12-year product warranty and a 25-year peak efficiency warranty, this module is a dependable solution for residential, commercial, and industrial solar projects.

Certifications & Warranty

Warranty Coverage

12-Year Product Warranty • 25-Year Peak Efficiency Warranty

Certifications

TUV, CE, CEC, ISO, IEC61215, IEC61730

Electrical Characteristics

Performance at STC

280 W Max Power (P _{max})	32.1 V Max Power Voltage (V _{mp})	8.72 A Max Power Current (I _{mp})	38.52 V Open Circuit Voltage (V _{oc})	9.16 A Short Circuit Current (I _{sc})
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Efficiency Ratings

Metric	Value
Cell Efficiency	19.56%
Module Efficiency	17.21%

Mechanical Specifications

Physical Dimensions

- Dimensions: 1640 x 992 x 35 mm
- Weight: 17.5 kg
- Cell Quantity: 60 (6x10)
- Cell Size: 156.75 x 156.75 mm

Construction Materials

- Front Cover: 3.2 mm Tempered Glass
- Back Cover: TPT (Tedlar-PET-Tedlar)
- Encapsulant: EVA
- Frame: Aluminium Alloy

Operational Limits

Environmental Ratings

- Max System Voltage: 1500V DC
- Operating Temperature: -40°C to +85°C
- Max Wind/Snow Load: 2400 Pa
- Max Series Fuse Rating: 15A