

Monocrystalline 460W Half-Cell Solar Panel

This monocrystalline solar panel features half-cut cell technology for enhanced performance and durability. It is designed for grid-tied solar systems, offering excellent power output and reliability.



Overview

High-Efficiency Monocrystalline Solar Module

This 460W monocrystalline half-cell solar panel is engineered for high-performance grid-tied solar systems. Featuring robust construction with tempered glass and an aluminum alloy frame, it offers excellent durability in various environmental conditions. With certifications including TUV, CE, and ISO, this module ensures reliability for residential, commercial, and industrial installations.

Certifications & Warranty

Warranty Coverage

- 12 years product warranty
- 25 years peak efficiency warranty

Certifications

TUV, CE, CEC, ISO

Technical Specifications

Performance Metrics (STC)

460 W

Max Power (P_{max})

40.9 V

Max Power Voltage (V_{mp})

11.25 A

Max Power Current (I_{mp})

48.67 V

Open Circuit Voltage (V_{oc})

12.15 A

Short Circuit Current (I_{sc})

Efficiency

22.84 %

Cell Efficiency

20.45 %

Module Efficiency

Physical Characteristics

Physical Dimensions

- Dimensions: 2098 x 1038 x 35 mm
- Weight: 22.5 kg

Construction Materials

- Front Cover: 3.2 mm tempered glass
- Back Cover: TPT (Tedlar-PET-Tedlar)
- Encapsulant: EVA
- Frame: Aluminium alloy

Operating Conditions

Operating Limits

- Operating Temperature: -40°C to +85°C
- Max System Voltage: 1500V (DC)
- Max Wind/Snow Load: 2400 Pa
- Max Series Fuse Rating: 20A

Logistics

Packaging Details

| Item | Quantity |
|----------------|---------------|
| Packaging | 26 pcs/pallet |
| 40HQ Container | 660 pcs |