

Mono-Crystalline 510W Solar Panel

This mono-crystalline solar panel is designed for efficient solar energy harvesting. It features robust construction for long-term reliability and performance in diverse conditions.



ADDITIONAL IMAGES



Overview

High-Efficiency Mono-Crystalline Solar Panel

This 510W mono-crystalline solar panel is engineered for optimal energy conversion and long-term reliability in diverse environmental conditions. It features robust construction with high-quality raw materials, making it suitable for residential, commercial, and utility-scale applications. With a 12-year product warranty and a 25-year peak efficiency warranty, this module offers a dependable and sustainable energy solution.

Certifications & Warranty

Certifications	TUV, CE, CEC, ISO
Product Warranty	12 years
Peak Efficiency Warranty	25 years

Electrical Characteristics

Performance Metrics (510W Model)

510 W Max Power (P _{max})	49.3 V Max Power Voltage (V _{mp})	10.34 A Max Power Current (I _{mp})	59.16 V Open Circuit Voltage (V _{oc})	10.86 A Short Circuit Current (I _{sc})
Module Efficiency	20.1 %			
Power Production Tolerance	0 to +3%			

Mechanical Specifications

Construction Materials

- 3.2 mm tempered glass front cover
- TPT (Tedlar-PET-Tedlar) back cover
- EVA encapsulant
- Aluminium alloy frame

Dimensions	1956 x 1310 x 40 mm
Weight	27.5 kg

Operational Limits

Operating Temperature	-40 to +85°C
Max System Voltage	1500 V
Max Wind/Snow Load	2400 Pa