

# 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)

<b>510 W</b> Max Power (Pmax)	<b>49.3 V</b> Max Power Voltage (Vmp)	<b>10.34 A</b> Max Power Current (Imp)	<b>59.16 V</b> Open Circuit Voltage (Voc)	<b>10.86 A</b> Short Circuit Current (Isc)
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