

290-310W Monocrystalline Solar Panel Module

These monocrystalline solar panel modules undergo 100% EL testing and offer 100% plus tolerance (0-+3%). The modules are insured and provide exceptional performance even with low solar irradiance.



Overview

High-Efficiency Monocrystalline Modules

These 290-310W monocrystalline solar modules are engineered for high-performance energy generation in residential, commercial, and utility-scale projects. Built with durable materials and a 4.0mm glass thickness, they offer excellent reliability and resilience against harsh environmental conditions. The modules provide a cost-effective solution with high power density, ensuring consistent energy output even in varying climates.

Performance Metrics

Electrical Characteristics

Pmax (W)	Uoc (V)	Isc (A)	Efficiency (%)
290	44.72	8.6	15.14
295	44.84	8.65	15.41
300	44.96	8.71	15.67
305	45.08	8.77	15.93
310	45.2	8.84	16.19

System Limits

1000 V

Max System Voltage

15 A

Max Series Fuse

Mechanical Data

Physical Specifications

- Dimensions: 1950 x 982 x 50 mm
- Weight: 23.5 kg
- Number of Cells: 72 pcs
- Glass Thickness: 4.0 mm

Mechanical Load

5400 Pa

Temperature Ratings

Temperature Coefficients

- Isc: 0.063%/
- Voc: -0.431%/
- Pmax: -0.357%/

Operating Temperature	-40 to +85
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Nominal Operating Cell Temperature (NOCT)	48
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