

345W Polycrystalline Solar Panel with 144 Cells

This 345W polycrystalline solar panel is equipped with 144 solar cells, making it suitable for solar systems and home solar applications. It delivers reliable performance and durability for various solar energy needs.



ADDITIONAL IMAGES



Product Overview

HiPro Series
144-CELL POLYCRYSTALLINE SOLAR MODULE

340-360 Watt
144-CELL POLYCRYSTALLINE SOLAR MODULE

Features:

- High Power Output:** Advanced 144-cell half-cut technology for superior power output.
- High Efficiency:** Optimized cell design for maximum energy conversion.
- Low Temperature Coefficient:** Maintains high performance in hot climates.
- High Mechanical Load:** Robust construction for heavy-duty applications.
- Anti-PID:** High resistance to Potential Induced Degradation for long-term reliability.
- IP65 Protection:** Weather-resistant for outdoor use.
- Wide Temperature Range:** Operates efficiently in various climates.
- CE, TUV, ISO Certified:** Complies with international safety and quality standards.

Technical Specifications:

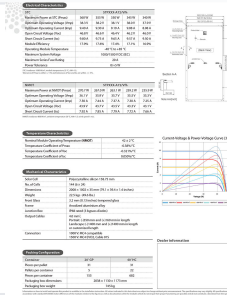
- Module Type: Polycrystalline
- Cells: 144 (6x6x4)
- Power: 340-360 Watt
- Voltage: 18V
- Current: 19.17A
- Dimensions: 1650mm x 990mm x 35mm
- Weight: 21.5kg
- Warranty: 10 Years

Performance Graph: Shows the power output of the module across different irradiance levels and temperatures.

High-Efficiency 144-Cell Solar Module

This 345W polycrystalline solar panel utilizes advanced 144-cell half-cut technology to deliver superior power output and reliability in diverse environments. Engineered for both residential and commercial solar systems, the module features high PID resistance and excellent performance under low-light conditions. Its robust construction is certified for heavy mechanical loads, ensuring long-term durability for off-grid and grid-tied installations.

Electrical Characteristics



Key STC Metrics

345 W

Max Power (P_{max})

38 V

Optimum Operating Voltage

9.08 A

Optimum Operating Current

17.1 %

Module Efficiency

Full Electrical Data

Parameter	Value
Open Circuit Voltage (V _{oc})	46.2 V
Short Circuit Current (I _{sc})	9.57 A
Max System Voltage	1000/1500 V DC
Max Series Fuse	20 A
Power Tolerance	0/+5 W

Mechanical Characteristics

Dimensions and Weight

- Dimensions: 2008 x 1002 x 35 mm
- Weight: 22.5 kg
- Cell Type: Polycrystalline silicon 158.75 mm
- Number of Cells: 144 (6 x 24)
- Front Glass: 3.2 mm tempered glass

Environmental and Ratings



Certifications & Resistance

IP68 Rated Junction Box, PID Resistant, Salt Mist Corrosion Resistant, Ammonia Corrosion Resistant, 5400 Pa Front Load Capacity

Operational Conditions

Operating Temperatures

-40°C to +85°C