

# 435W Monocrystalline Solar Panel for Power Systems

This 435W monocrystalline solar panel is engineered for solar power systems. It provides a sustainable energy solution with excellent power output and long-term stability.



## ADDITIONAL IMAGES



## Product Overview

**HI Power Series**  
144 CELL HALF-CUT MONOCRYSTALLINE SOLAR MODULE

**430-450 Watt**  
3770005 - 4720006

**Features:**

- High power output:** High power output, up to 435W (STC), 440W (NOCT).
- Advanced cell technology:** Advanced cell technology, 182mm x 182mm, 182mm x 182mm, 182mm x 182mm.
- Robust design:** Robust design, 30-year warranty, 30-year warranty, 30-year warranty.
- Low temperature coefficient:** Low temperature coefficient, -0.45%/°C, -0.45%/°C, -0.45%/°C.
- High efficiency:** High efficiency, 21.5%, 21.5%, 21.5%.
- Low temperature coefficient:** Low temperature coefficient, -0.45%/°C, -0.45%/°C, -0.45%/°C.
- High efficiency:** High efficiency, 21.5%, 21.5%, 21.5%.

**Test Results:**

**ISO 9001**

**ISO 14001**

**ISO 45001**

**CE**

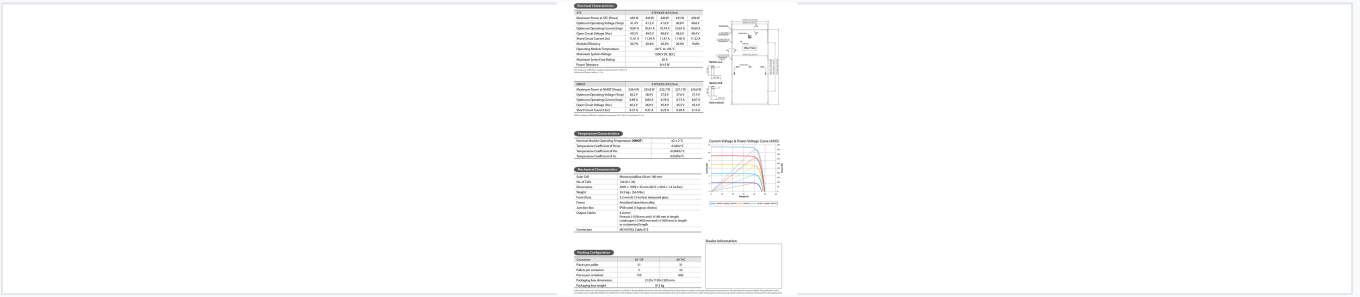
**TUV**

**IEC**

### High-Efficiency 435W Monocrystalline Solar Module

This 144-cell half-cut monocrystalline solar module is engineered for maximum power output and durability in diverse environments. With a power range of 435W-440W, it offers advanced cell technology that minimizes mismatch losses and maximizes performance even in weak light conditions such as haze or cloudy weather. Its robust design is certified to withstand significant static loads and harsh environmental conditions, making it an ideal choice for residential, commercial, and utility-scale solar installations.

## Electrical Performance



### Electrical Characteristics (STC)

Parameter	Value
Maximum Power (Pmax)	435
Optimum Operating Voltage (Vmp)	40.8
Optimum Operating Current (Imp)	10.67
Open Circuit Voltage (Voc)	48.6
Short Circuit Current (Isc)	11.4

## Technical Specifications

### Key Technical Metrics

<b>20 %</b> Module Efficiency	<b>1500 V DC</b> Max System Voltage	<b>20 A</b> Max Series Fuse	<b>42 °C</b> NMOT
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### Physical Characteristics

- Dimensions: 2095 x 1039 x 35 mm
- Weight: 24.5 kg
- Cells: 144 (6 x 24) Monocrystalline silicon
- Glass: 3.2 mm tempered glass
- Frame: Anodized aluminium alloy
- Junction Box: IP68 rated with 3 bypass diodes

## Certifications & Compliance

Standards and Certifications	IEC 61215, IEC 61730, CE, PID Resistant, Salt Mist Corrosion Tested
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## Warranty

### Warranty Terms

- 12-year product warranty
- 25-year linear performance warranty
- 98% power output in the first year
- Maximum 0.55% annual degradation years 2-25