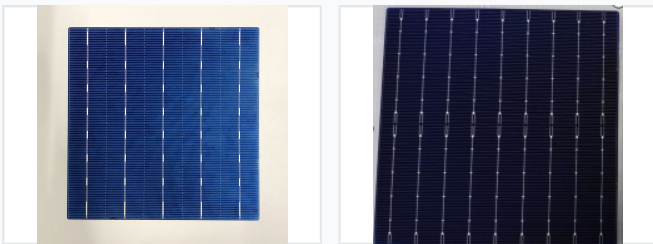


# Monocrystalline Silicon Solar Module

This high-efficiency solar module utilizes a monocrystalline silicon solar cell array. Designed for durability, it features an anti-reflective coating and multiple busbars for efficient current collection.



## ADDITIONAL IMAGES



## Overview

### High-Efficiency Monocrystalline Silicon Solar Modules

These monocrystalline silicon solar modules offer exceptional versatility with power ratings ranging from 5W to 450W, making them suitable for everything from small-scale residential setups to large utility-scale photovoltaic power stations. Engineered for durability and optimized energy conversion, these modules feature advanced anti-reflective coatings and high-conductivity busbar technology to maximize electricity yield even in challenging conditions. They are designed to reliably power grid-tied or off-grid systems and can be integrated seamlessly with energy storage solutions.

## Technical Performance

### Key Performance Metrics

**22.4 %**

Max Efficiency

**450 W**

Max Power

**1500 V**

Max System Voltage

### Electrical Range Specifications

Parameter	Range
Rated Voltage	6V - 36V
Rated Current	1A - 20A
Open-circuit Voltage	7V - 50V
Short-circuit Current	1.1A - 11.47A

## Design and Compatibility

### Cell and Physical Specs

- Busbar configurations: 5 or 9
- Cell sizes: 156.75x156.75mm, 158.75x158.75mm, 166x166mm
- Power Tolerance: 0 to +3%

### Application Areas

Photovoltaic Power Stations, Traffic Signal Systems, Energy Storage Charging, Grid-tied Systems, Off-grid Power Generation