

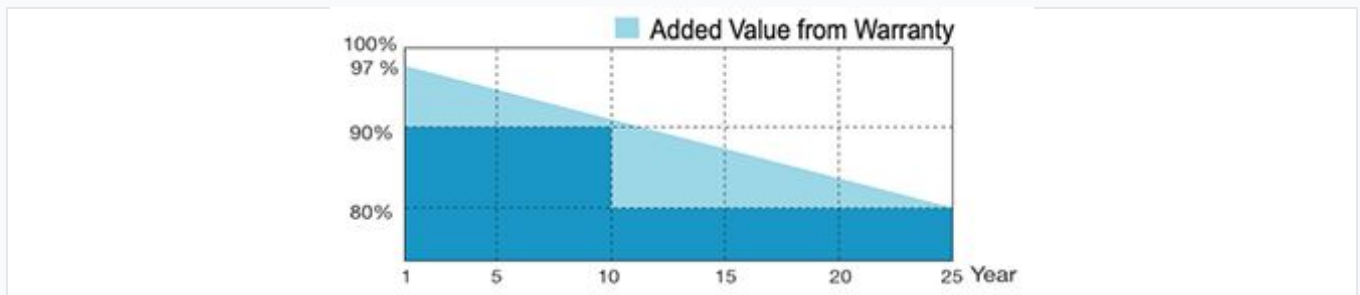
# Monocrystalline Half-Cut Solar Panel

## 395-415W

This solar panel utilizes monocrystalline 158.75 x 79.375 mm cells with 144 cells in a 6 x 24 configuration. It measures 2008mm x 1002mm x 40mm and offers module efficiency up to 20.6%.



### Overview

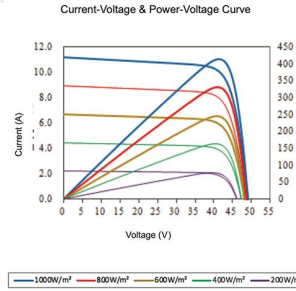


Visual representation of value retention over a 25-year lifespan, highlighting the added value provided by the warranty.

### High-Efficiency Half-Cut Solar Module

This monocrystalline half-cut solar panel series is designed for high-performance energy generation in residential, commercial, and utility-scale applications. By utilizing 144 half-cut cells, the module minimizes energy loss due to shading and improves overall electrical performance. With a power output range of 395W to 415W and efficiency up to 20.6%, it offers a reliable solution for maximizing solar energy conversion.

## Electrical Characteristics



Current-Voltage and Power-Voltage performance curves across varying irradiance levels from 200W/m<sup>2</sup> to 1000W/m<sup>2</sup>.

### Performance at STC

Metric	395W Model	415W Model
Open-Circuit Voltage (Voc)	48.6V	49.0V
Short-Circuit Current (Isc)	10.67A	11.15A
Optimum Operating Voltage (Vmp)	40.5V	41.3V
Optimum Operating Current (Imp)	9.76A	10.06A
Module Efficiency	19.6%	20.6%

Power Output Range	395W, 400W, 405W, 410W, 415W
Power Tolerance	0 ~ +5W
Maximum System Voltage	1000V / 1500V DC (IEC)
Maximum Series Fuse Rating	15 A
Operating Temperature	-40°C to +85°C

## Mechanical Characteristics



Detailed engineering drawing illustrating dimensions, mounting hole locations, and frame profile.

### Junction Box Rating

IP67

Solar Cell Type	Monocrystalline 158.75 x 79.375 mm
Number of Cells	144
Dimensions	2008mm x 1002mm x 40mm
Weight	23 kg
Cable Specifications	4mm <sup>2</sup> (IEC), 1100mm length
Connector Type	MC4 / MC4 Compatible
Packaging	27pcs/box, 594pcs/40'HQ Container