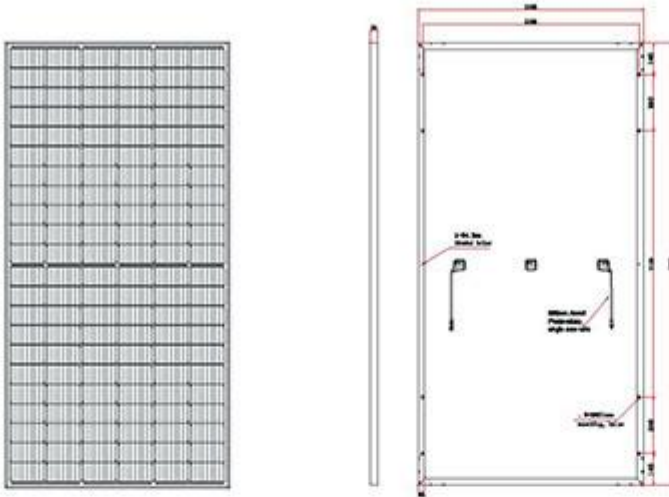


### Mechanical Diagrams



### Specifications

Cell	Mono
Weight	20.2KG
Dimensions	1960*1060*35MM
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12AWG (UL)
Solar Cells	132 (6*22)
Junction Box	IP68/FT50XY, 3*bypass diode
Connector	RHC2
Cable Length (Including Connector)	300mm
Front Glass	2.0mm

### Electrical Parameters at STC

Type	MSD132-450W
Rated Maximum Power (Pmax)[W]	450
Open Circuit Voltage (Voc)[V]	47V
Maximum Power Voltage (Vmp)[V]	40V
Short Circuit Current (Isc)[A]	11.9A
Maximum Power Current (Imp)[A]	11.25A
Power Tolerance	0→+5W
Temperature Coefficient of Isc (α <sub>Isc</sub> )	+0.046%/°C
Temperature Coefficient of Voc (β <sub>Voc</sub> )	-0.276%/°C
Temperature Coefficient of Pmax (γ <sub>Pmp</sub> )	-0.350%/°C

STC Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

Remark: Electrical data in this catalogue does not refer to a single module, and it's not part of the offer. It only serves for the comparison among different module types.

### Electrical Parameters at NOCT (Suppose 10% Ratio of Solar Irradiance)

Type	MSD132-450W
Rated Maximum Power (Pmax)[W]	489
Open Circuit Voltage (Voc)[V]	41.85
Maximum Power Voltage (Vmp)[V]	35.29
Short Circuit Current (Isc)[A]	14.69
Maximum Power Current (Imp)[A]	13.86

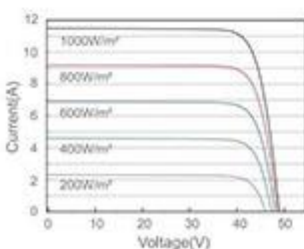
rate of the back of solar panel = peak power of STC / nominal power

### Operating Conditions

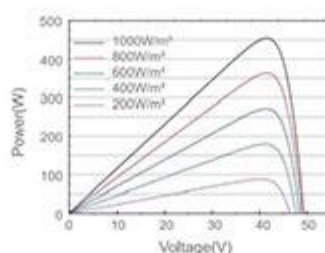
Maximum System Voltage	1000V DC
Operating Temperature	-40°C→+85°C
Maximum Series Fuse	25A
Maximum Static Load, Front	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Backside Ratio	70%±10%
Fireproof Performance	UL Type 29

### Characteristics

Current Voltage Curve MSD132-450W



Power Voltage Curve MSD132-450W



# MSD132-450W

Half-cut single/Double Glass Module

