

MSD132-430W

Mono Half-cut single/Double Glass Module

INTRODUCTION

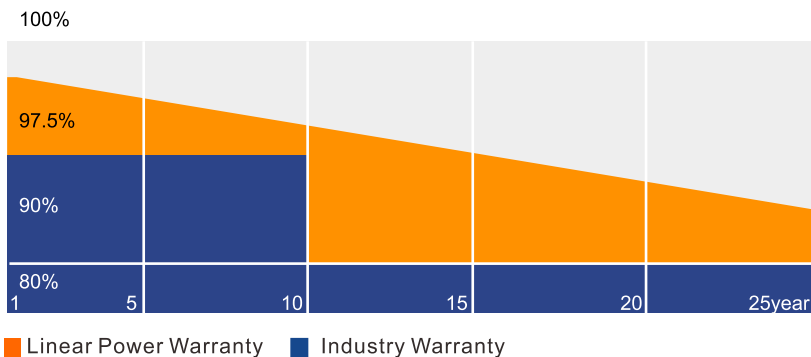
MONO half-cut single glass module, assembled with multi-busbar PERC technique and half-cut structure, offer the advantages of higher power output, reduce shading effect on the energy generation, enhance the mechanical load bearing capacity as well.

LCOE save 6-8%

- ↓6% Saving logistics cost
- ↓7% Saving cable cost
- ↓8% Saving bracket cost
- ↓9% Saving labor cost

First-class Quality Assurance

- 10-year warranty for material and technology
- 25-year linear power output warranty

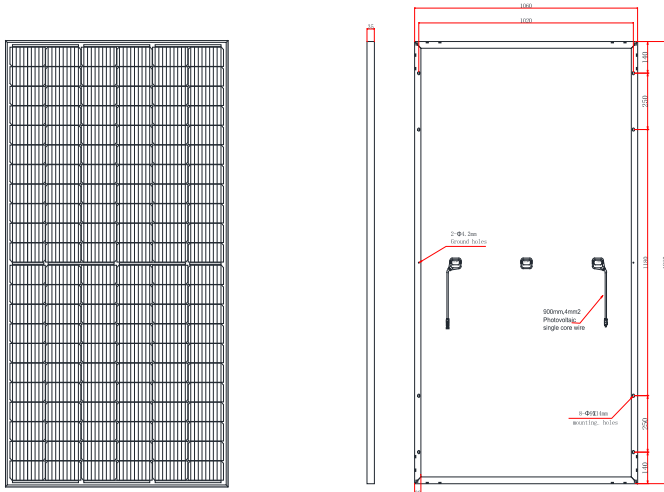


Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO45001: Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



Mechanical Diagrams



Specifications

Cell	Mono
Weight	20.2KG
Dimensions	1960*1060*35MM
Cable Cross Section Size	4mm ² (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	MSD132-430W
Rated Maximum Power (Pmax)[W]	430
Open Circuit Voltage (Voc)[V]	47V
Maximum Power Voltage (Vmp)[V]	40V
Short Circuit Current (Isc)[A]	11.36A
Maximum Power Current (Imp)[A]	10.72A
Power Tolerance	0~+5W
Temperature Coefficient of Isc (α _{Isc})	+0.046%/°C
Temperature Coefficient of Voc (β _{Voc})	-0.276%/°C
Temperature Coefficient of Pmax (γ _{Pmp})	-0.350%/°C

STC Irradiance 1000W/m², 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.

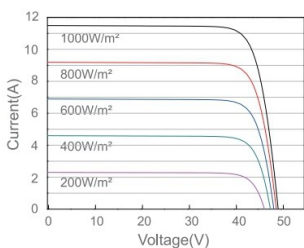
Electrical Parameters at NOCT (Suppose 10% Ratio of Solar Irradiance)

Type	MSD132-430W	Operating Conditions
Rated Maximum Power (Pmax)[W]	489	Maximum System Voltage 1500V DC
Open Circuit Voltage (Voc)[V]	41.85	Operating Temperature -40°C~+85°C
Maximum Power Voltage (Vmp)[V]	35.29	Maximum Series Fuse 25A
Short Circuit Current (Isc)[A]	14.69	Maximum Static Load, Front 5400Pa (112 lb/ft ²) Maximum Static Load, Back 2400Pa (50 lb/ft ²)
Maximum Power Current (Imp)[A]	13.86	NOCT 45±2°C
		Backside Ratio 70%±10%
		Fireproof Performance UL Type 29

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

Characteristics

Current Voltage Curve MSD132-450W



Power Voltage Curve MSD132-450W

