



Mono Half-out 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%

L6% Saving logistics cost

17% Saving cable cost

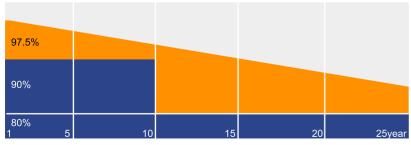
8% Saving bracket cost

9% Saving labor cost

#### **First-class Quality Assurance**

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

#### 100%



■ Linear Power Warranty ■ Industry Warranty

## **Comprehensive Certificates**

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

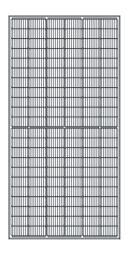


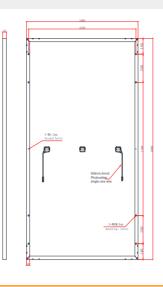






# **Mechanical Diagrams**





# **Specifications**

Cell	Mono
Weight	20. 2KG
Dimensions	1960*1060*35MM
Cable Cross Section Size	4mm² (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**

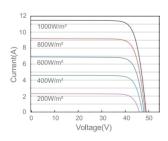
Туре	MSD132-450W
Rated Maximum Power (Pmax)[W]	450
Open Circuit Voltage (Voc)[V]	47V
Maximum Power Voltage (Vmp)[V]	40V
Short Circuit Current (Isc)[A]	11.9A
Maximum Power Current (Imp)[A]	11.25A
Power Tolerance	0~+5W
Temperature Coefficent of Isc(α_Isc)	+0.046%/°C
Temperature Coefficent of Voc (β_Voc)	-0.276%/°C
Temperature Coefficent 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)		Operating Conditions	
Туре	MSD132-450W	Maximum System Voltage	1500V DC
Rated Maximum Power (Pmax)[W]	489	Operating Temperature	-40°C~+85°C
Open Circuit Voltage (Voc)[V]	41.85	Maximum Series Fuse	25A
Maximum Power Voltage (Vmp)[V]	35.29	Maximum Static Load, Front Maximum Static Load, Back	5400Pa(112 lb/ft²) 2400Pa (50 lb/ft²)
Short Circuit Current (Isc)[A]	14.69	NOCT	45±2°C
Maximum Power Current (Imp)[A]	13.86	Backside Ratio	70%±10%
rate of the back of solar panel =peak power of STC /nom	inal power	Fireproof Performance	UL Type 29

### Characteristics

Current Voltage Curve MSD132-450W



500

Power Voltage Curve MSD132-450W

