

MP455W#PVT

Mono Half-cut Single/Double Glass Module

455/MB

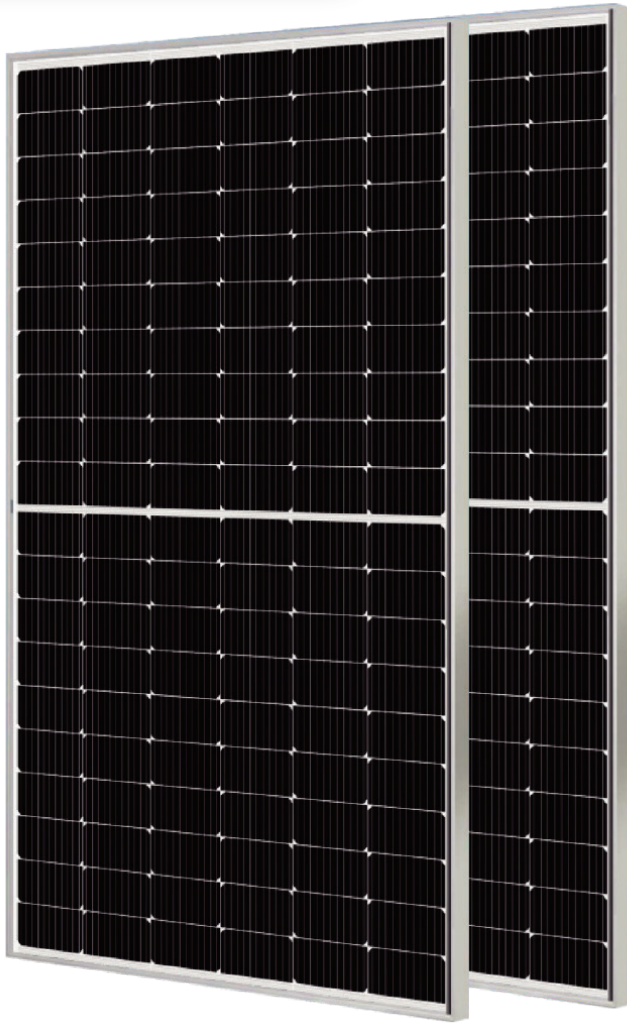
INTRODUCTION

MONO half-cut single / double glass module, assembled with multi-busbar PERC technique and half-cut structure, which can not only absorb the energy from the front of the module, but also absorb the reflected light and the scattered light from the back, 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%

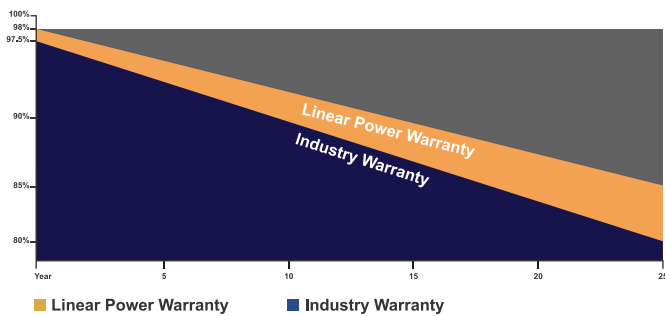
LCOE save 6-8%

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

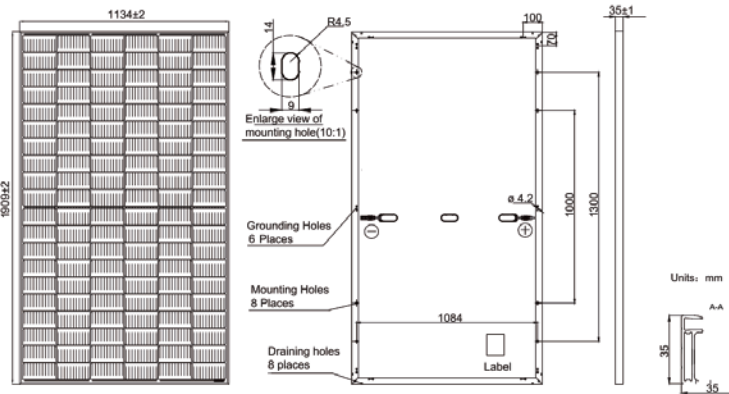


Frist-class Quality Assurance

- 10-year warranty for material and technolog
- 25-year linear power output warrant



Comprehensive Certificates



Specifications

Solar Cell(Type/Size)	MONO (182mm)
Solar Cells Number	120pcs (6*20)
Dimensions	1909*1134*35mm
Weight	23.9kg/pcs
Structure	3.2 Glass+EVA film+Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 3*Bypass Diode
Cable Cross Section Size	4.0mm ² , (+)300mm/(-)
Mechanical Load	Front 5400Pa/Back 2400Pa
Packing Number	31 Pcs/Pallet
Packing Volume	2.834Cbm/Pallet
40'HQ Container	744Pcs

Electrical Parameters at STC

Module Type	MP455W#PVT
Rate Maximum Power(Pmax/W)	455
Module Efficiency(%)	21.10
Open Circuit Volatge(Voc/V)	41.40
Short Circuit Current(Isc/A)	13.97
Voltage at Pmax(Vmp/V)	34.87
Current at Pmax(Imp/A)	13.05
Power Tolerance	0~+5W
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Voe	-0.276%/°C
Temperature Coefficient of Pmax	-0.350%/°C
STC	Irradiance 1000W/m ² 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

Module Type	MP455W#PVT
Rate Maximum power(Pmax/W)	343
Open Circuit Volatge(Voc/V)	38.77
Short Circuit Current(Isc/A)	11.12
Voltage at Pmax(Vmp/V)	32.67
Current at Pmax(Imp/A)	10.51

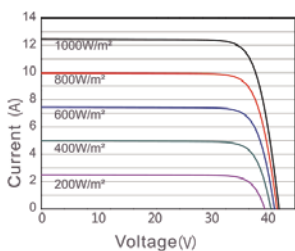
NOCT: Irradiance 800W/m² Ambient Temperature 20°C Wind at 1m/s AM1.5

Operating Conditions

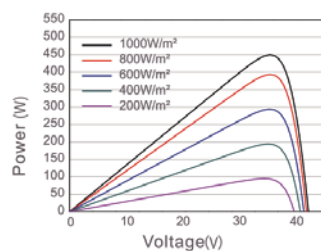
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
Maximum Series Fuse	25A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

Characteristics

Current Voltage Curve 450W



Power Voltage Curve 450W



Current Voltage Curve 450W

