MECER®

MONOCRYSTALLINE SILICON MODULE



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Products Characteristics

- Widely using of the most popular and mature type of modules for on-grid system.
- Leading manufacturing technology in PV industry, strictly controlling the quality of raw materials and the process of producing
- 100% EL inspection, ensures modules are defects free.
- Cells binned by current to improve module performance
- Anti reflective glass. Not only to increase the light absorption, but also to make the module has the function of self-cleaning in water environment, effectively reducing the power loss caused by dust.
- Outstanding performance in low-light irradiance environments.
- Excellent mechanical load resistance:Certified to withstand high wind loads(2400pa) and snow loads(5400pa).
- High salt and ammonia resistance
- Positive power tolerance:0-+5w

Warranty

- 10 years product warranty
- 10-years 90% of Min. rated output power,and 25-years 80% of Min. rated output power warranty

10 years products warranty

25 year power output warranty

Comprehensive Certificates

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- IEC61215、IEC61730 Certificate
- SGS-TUV Certificate
- CE Certificate

Specifications subject to technology and test conditions,

Engineering Drawings (Front Side)



Raw materials and Mechanical Parameters

	M-450
Type of Cells(mm)	166*83
NO. of Cells and Connections	6*12*2 =144
Dimensions(mm)(L*W*H)	2095x1039x35
Weight(kg)	23.5
Glass	3.2mmTempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium-Frame	Silvery/Black Anodized aluminium alloy
Junction-Box	IP68
Cable	4mm²
Connector	MC4 and MC4 Compatible
Package Configuration	31pcs/pallet
20GP	250
40HQ	682

Performance Parameters

	M-450
Maximum System Voltage	1500V
Operating Temperature	-45~+85℃
Maximum Series Fuse	20A
Maximum Static Load,Front Side (e.x. Snow,Wind)	5400Pa
Maximum Static Load, Back Side(e.x. Wind)	2400Pa
Application Grade	Class A

Electrical Parameters (Standard Test Condition)

Module Type	M-450
Test condition	STC
Rated Maximum Power(Mp)	450W
Maximum Power Voltage(Vmp)	41.5
Maximum Power Current(Imp)	10.85
Open Circuit Voltage(Voc)	49.3
Short Circuit Current(Isc)	11.6
Module Efficiency(%)	20.67
Temperature Coefficient of Isc	+0.048%/℃
Temperature Coefficient of Voc	-0.270%/℃
Temperature Coefficient of Pmp	-0.350%℃
Standard Test Condition	Irradiance:1000W/M2,Cell Temperature:25℃,Spectrum AM:1.5

The Electrical Parameters of the module are the average theory figure under the standard test condition, each one exists difference. Can not be treated as the basis of module delivery.