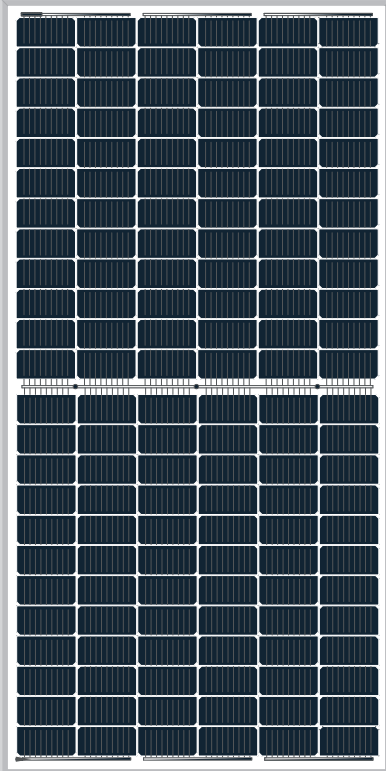


MONOCRYSTALLINE SILICON MODULE



10 years
products
warranty

25 year
power output
warranty

BMA(-HV)-440 BMA(-HV)-445 BMA(-HV)-450

MONOCRYSTALLINE SILICON MODULE

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

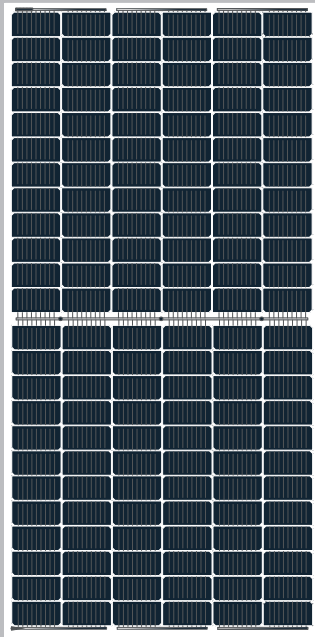
Comprehensive Certificates

- ISO Certificate
- IEC61215、IEC61730 Certificate
- TUV-SUD Certificate
- CE Certificate

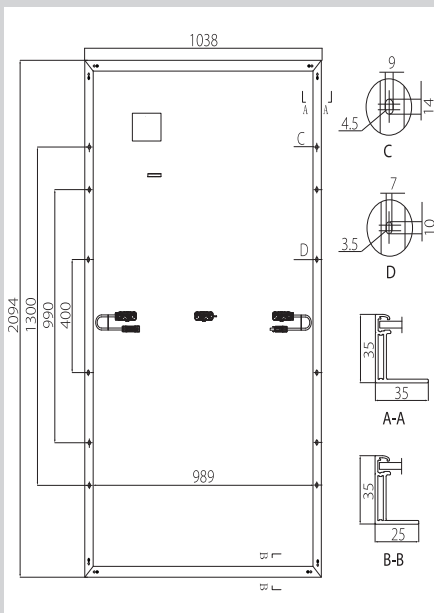
Specifications subject to technology and test conditions,

BMA(-HV)-440 BMA(-HV)-445 BMA(-HV)-450

Engineering Drawings (Front Side)



Engineering Drawings (Back Side)



Raw materials and Mechanical Parameters

	BMA(-HV)-440	BMA(-HV)-445	BMA(-HV)-450
NO. of Cells and Connections	6x24=144		
Dimensions(mm)(L*W*H)	2094x1038x35		
Weight(kg)	23.5		
Glass	3.2mm Tempered Glass		
Encapsulation	EVA		
Backsheet	Multilayer Composite		
Aluminium-Frame	Silvery/Black Anodized aluminium alloy		
Junction-Box	IP68		
Cable	4mm ² ,300mm(length can be customized)		
Connector	MC4 and MC4 Compatible		
20HQ	150pcs		
40HQ	660pcs		

Performance Parameters

	BMA(-HV)-440	BMA(-HV)-445	BMA(-HV)-450
Maximum System Voltage	1500 V		
Operating Temperature	-40~+85°C		
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)

	BMA(-HV)-440	BMA(-HV)-445	BMA(-HV)-450
Rated Maximum Power(Mp)	440W	445W	450W
Power Tolerance	0- +5W		
Module Efficiency	20.2%	20.5%	20.7%
Open Circuit Voltage(Voc)	48.9V	49.1V	49.3V
Maximum Power Voltage(Vmp)	41.1V	41.3V	41.5V
Short Circuit Current(Isc)	11.46A	11.53A	11.6A
Maximum Power Current(Imp)	10.71A	10.78A	10.85A
Temperature Coefficient of Isc	+0.048%		
Temperature Coefficient of Voc	-0.27%		
Temperature Coefficient of Pmp	-0.35%		
Standard Test Condition	Irradiance:1000W/M2,Cell Temperature:25°C,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.