

Solargiga Energy

Giga Sup7

JMPV-XVT6/54-495(R)
JMPV-XVT6/54-500(R)
JMPV-XVT6/54-505(R)
JMPV-XVT6/54-510(R)

MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

Maximum Power | Maximum Efficiency
510W | **22.9%**



CELL TYPE

N-Type/MBB/Monocrystalline/Half-Cell



HIGH EFFICIENCY, HIGH GENERATION

Based on monocrystalline silicon wafer and TOPcon cell technology, the power generation efficiency has greatly improved with lower degradation and better temperature coefficient.



SUPPORT 1500Vdc SYSTEM

Increase the number of system modules in series, reduce overall cost of terminal power plant.



STRONG MECHANICAL LOAD CAPACITY

Withstand snow pressure up to 5400Pa on the front face and wind pressure up to 2400Pa on the rear face.



IEC 61215 / IEC 61730

IEC 60068-2-68 : Dust and Sand Test

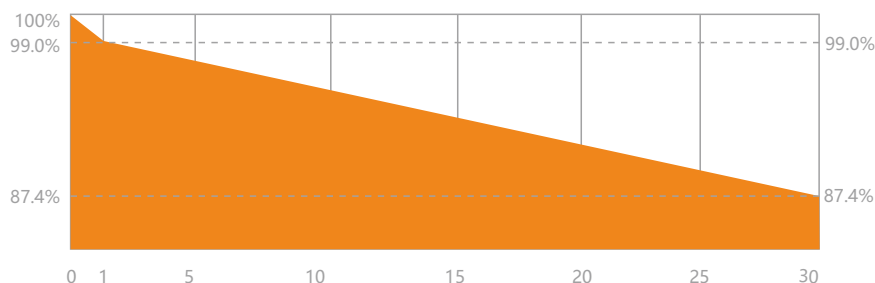
*IEC 61215/61730 certificate holder: Jinzhou Yangguang Energy Co., Ltd.

12 YEARS

Product Warranty

30 YEARS

Power Output Warranty*



*Only applies to the actual power output of the front face of the modules under STC (Standard Test Condition).

PICC

ADDITIONAL PREMIUM INSURANCE
SERVICES ARE AVAILABLE



Solargiga Energy

Founded in 2000, Solargiga Energy Holdings Limited ('Solargiga Energy' , HKEX:00757.HK), is a renewable energy company which combines the business of the whole mono-crystalline industrial chain covering R&D manufacturing, photovoltaic application and global marketing. It's committed to provide PV products, technical support and integrated system solution for global customers.

Website : www.solargiga.com

Made in China
DS-TS-2025V1.1

MBB MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

MODEL NUMBER	JMPV-XTV6/54-495(R)	JMPV-XTV6/54-500(R)	JMPV-XTV6/54-505(R)	JMPV-XTV6/54-510(R)
ELECTRICAL PARAMETERS (STC) STC(Standard Test Condition): AM1.5, Irradiance 1000W/m², Cell Temperature 25°C				
Max Power (Pmax/W)	495	500	505	510
Max Power Voltage(Vmp/Vdc)	33.05	33.21	33.38	33.54
Max Power Current (Imp/Adc)	14.98	15.06	15.13	15.21
Open Circuit Voltage(Voc/Vdc)	39.57	39.77	39.97	40.17
Short Circuit Current (Isc/Adc)	15.93	16.01	16.08	16.16
Module Efficiency (%)	22.3	22.5	22.7	22.9
ELECTRICAL PARAMETERS (BNPI) BNPI(Bifacial Nameplate Irradiance): AM1.5, Irradiance 1000W/m² (Front Face), Irradiance 135W/m² (Rear Face), Cell Temperature 25°C				
Max Power (Pmax/W)	547	553	558	564
Open Circuit Voltage(Voc/Vdc)	39.71	39.91	40.11	40.31
Short Circuit Current (Isc/Adc)	17.62	17.71	17.79	17.88

Bifaciality coefficient: $\Phi_{Voc}=(99\pm5)\%$, $\Phi_{Isc}=(80\pm10)\%$, $\Phi_{Pmax}=(80\pm10)\%$

ELECTRICAL PARAMETERS (BSI)		BSI(Bifacial Stress Irradiance): AM1.5, Irradiance 1000W/m² (Front Face), Irradiance 300W/m²(Rear Face), Cell Temperature 25°C		
Short Circuit Current (Isc/Adc)	19.75	19.85	19.94	20.04

BIFACIAL GENERATION DATA (510W FOR EXAMPLE)		Bifacial generation varies relying on albedo, height from ground, interval etc. Below data are for reference only.	
Power Gain	5%	15%	25%
Maximum Power (W)	535.63	586.61	637.59
Module Efficiency (%)	24.1	26.4	28.7
Max Power Voltage(Vmp/Vdc)	33.54	33.54	33.54
Max Power Current(Imp/Adc)	15.97	17.49	19.01
Open Circuit Voltage(Voc/Vdc)	40.17	40.17	40.17
Short Circuit Current(Isc/Adc)	16.97	18.58	20.20

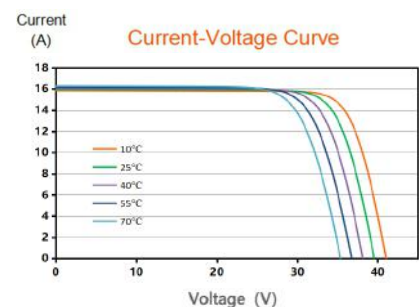
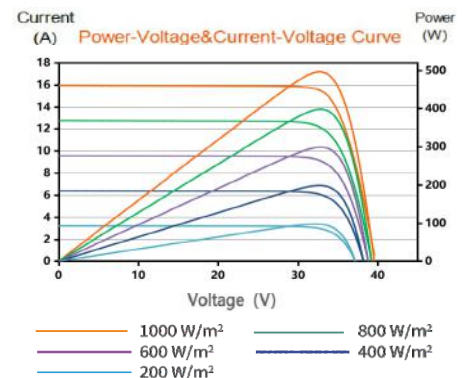
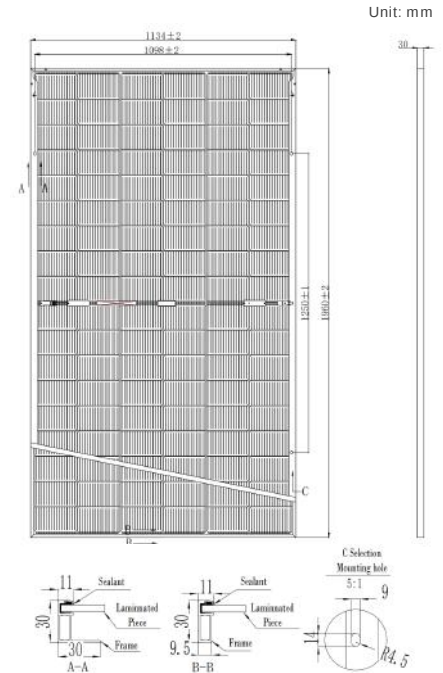
TEMPERATURE CHARACTERISTICS	
Cell Operating Temperature	45±2°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Pmax	-0.290%/°C

MECHANICAL PARAMETERS			
Cell Type	N Type/MBB/Monocrystalline/Half-Cell		
Number of Cells	108 (6×9×2)		
Weight	23.5±1.0kg	Dimension	1960×1134×30mm
Power Sorting Tolerance	0~+5W	Fire Rating	Class C
Front Glass	Semi-tempered embossed coated glass	Frame	Anodized Aluminum
Encapsulating Material	POE + POE/EVA	Junction Box	Protection Degree IP68
Back Glass	Semi-tempered embossed/high-reflection	Cable	4.0 mm² / + 300mm, - 200mm or customized length

OPERATING CONDITIONS			
Maximum System Voltage	1500Vdc	Max Front Face Static Load (Mechanical test load)	5400Pa
Work Environment Temperature#	-40°C ~ +85°C	Max Rear Face Static Load (Mechanical test load)	2400Pa
Maximum Series Fuse Rating	30Adc	Installation should strictly obey the installation manual of Solargiga Energy	

PACKING INFORMATION	
36pcs/pallet	864pcs/40'HQ

*Measurement tolerances: Pmax: ±3%; Voc: ±3%; Isc: ±5%; #T98(Max):70°C



Connector Manufacturer and Model	
Manufacturer	Model
JINZHOUYANGGUANG	C1xyz
Holysun	C1xyz/C2xyz
Minqhe	PV- MH5



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Liaoning Province, China

Note: Electrical parameters are only used for comparison between different types of modules. Due to product innovation, Solargiga Energy reserves the right to adjust the information in this datasheet at any time without prior notice. The technical data in this datasheet may be slightly deviated. Customer shall obtain the latest version of the datasheet when signing contract and making it an integral part of the binding contract signed by both parties.



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