

Solargiga Energy

Giga Sup7

JMPV-XV6/54-440(R)

JMPV-XV6/54-445(R)

MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

Maximum Power	Maximum Efficiency	Power Tolerance
445W	22.8%	0~+3%



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.



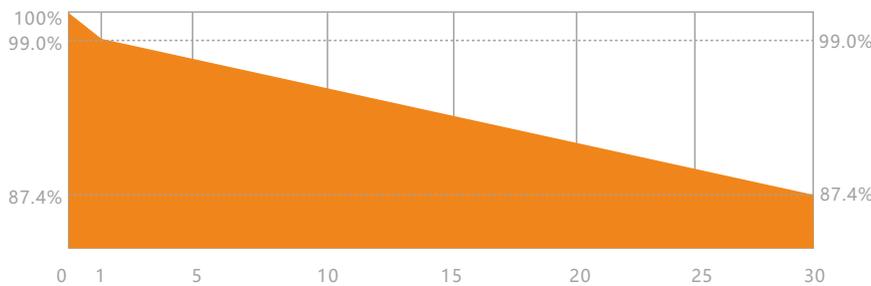
IEC 61215/ IEC 61730

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



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-2025V1.2

MBB MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

MODEL NUMBER	JMPV-XV6/54-440(R)	JMPV-XV6/54-445(R)
ELECTRICAL PARAMETERS (STC)		
Max Power (Pmax/W)	440	445
Max Power Voltage(Vmp/Vdc)	32.57	32.75
Max Power Current (Imp/Adc)	13.51	13.59
Open Circuit Voltage(Voc/Vdc)	39.65	39.87
Short Circuit Current (Isc/Adc)	14.12	14.20
Module Efficiency (%)	22.5	22.8

STC(Standard Test Condition): AM1.5, Irradiance 1000W/m², Cell Temperature 25°C

ELECTRICAL PARAMETERS (BNPI)		
Max Power (Pmax/W)	487	492
Open Circuit Voltage(Voc/Vdc)	39.90	40.01
Short Circuit Current (Isc/Adc)	15.64	15.71

Bifaciality coefficient: Voc=(99±5)%, Isc=(80±10)%, Pmax=(80±10)%

BNPI(Bi-facial Nameplate Irradiance): AM1.5, Irradiance 1000W/m²(Front Face), Irradiance 135W/m²(Rear Face), Cell Temperature 25°C

BIFACIAL GENERATION DATA (445W FOR EXAMPLE)			
Power Gain	5%	15%	25%
Maximum Power (W)	467.34	511.88	556.42
Module Efficiency (%)	23.9	26.2	28.5
Max Power Voltage(Vmp/Vdc)	32.75	32.75	32.75
Max Power Current(Imp/Adc)	14.27	15.63	16.99
Open Circuit Voltage(Voc/Vdc)	39.87	39.87	39.87
Short Circuit Current(Isc/Adc)	14.91	16.33	17.75

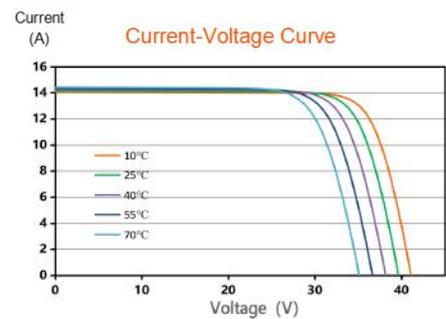
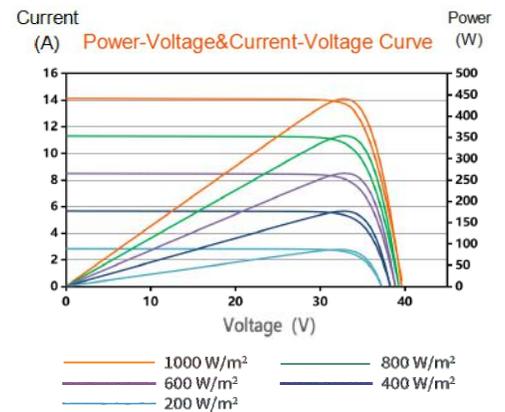
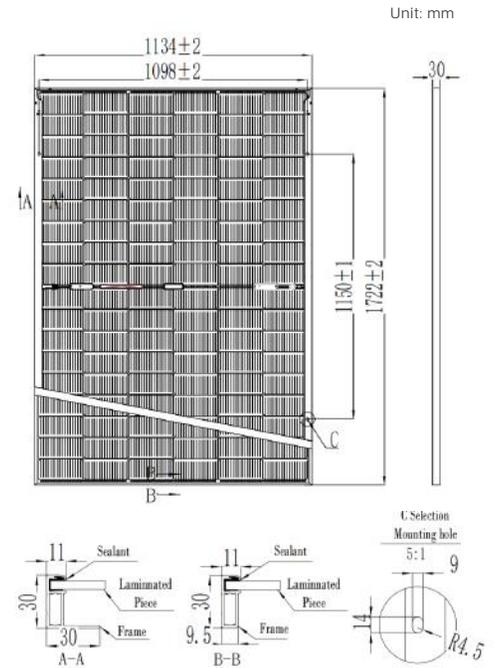
TEMPERATURE CHARACTERISTICS	
Cell Operating Temperature	45±2°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Pmax	-0.290%/°C

MECHANICAL PARAMETERS			
Cell Type	N Type/MBB/Monocrystalline/Half-Cell		
Number of Cells	108(6×9×2)		
Weight	24.5±1kg	Dimension	1722×1134×30mm
Power Sorting Tolerance	0~+5W	Fire Rating	Class C
Front Glass	Semi-tempered patterned coated glass	Frame	Anodized Aluminum
Encapsulating Material	POE/EVA	Junction Box	Protection Degree IP68
Back Glass	Semi-tempered grid embossed/high-reflection	Cable	4.0 mm ² / +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	936pcs/40'HQ

*Measurement tolerances : Pmax: ±3% ; Voc: ±3% ; Isc: ±5%



Connector Manufacturer and Model	
Manufacturer	Model
Jinzhou Yangguang	C1xyz
Holysun	C2xyz



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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 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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