

Solargiga Energy

# Giga Sup7

JMPV-XV6/54-430~440(R)

MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

Maximum Power

440W

Maximum Efficiency

22.5%

Power Tolerance

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.



## EXCELLENT ANTI-PID PERFORMANCE

Cell manufacturing technology optimization and materials control will help reduce PID degradation rate to the minimum.



## SUPPORT 1500V 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 62804: Anti-PID Test

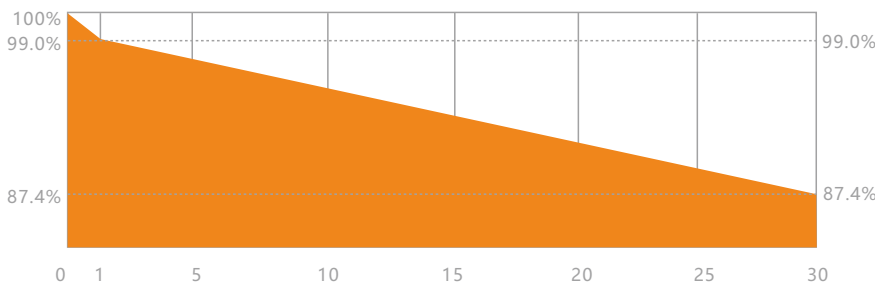
IEC 61701: Salt Spray Test

IEC 62716: Ammonia Corrosion Test

IEC 60068-2-68: Dust and Sand Test

12 YEARS Product Warranty

30 YEARS Power Output Warranty



# 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.

# MBB MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

## JMPV-XV6/54-430~440(R)

MODEL NUMBER	JMPV-XV6/54-430~440(R)		
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ELECTRICAL PARAMETERS (STC)			
Max Power (Pmax/W)	430	435	440
Max Power Voltage(Vmp/V)	32.21	32.40	32.57
Max Power Current (Imp/A)	13.35	13.43	13.51
Open Circuit Voltage(Voc/V)	39.18	39.41	39.65
Short Circuit Current (Isc/A)	13.97	14.05	14.12
Module Efficiency (%)	22.0	22.3	22.5

STC(Standard Test Condition): AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C

ELECTRICAL PARAMETERS (NMOT)			
Max Power (Pmax/W)	320.91	324.95	328.50
Max Power Voltage(Vmp/V)	30.02	30.20	30.36
Max Power Current (Imp/A)	10.69	10.76	10.82
Open Circuit Voltage(Voc/V)	36.64	36.86	37.08
Short Circuit Current (Isc/A)	11.28	11.34	11.40

NMOT(Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

BIFACIAL GENERATION DATA (TAKE 440W FOR EXAMPLE)			
Power Gain	5%	15%	25%
Maximum Power (W)	462.17	506.14	550.11
Module Efficiency (%)	23.7	25.9	28.2
Max Power Voltage(Vmp/V)	32.57	32.57	32.57
Max Power Current(Imp/A)	14.19	15.54	16.89
Open Circuit Voltage(Voc/V)	39.65	39.65	39.65
Short Circuit Current(Isc/A)	14.83	16.24	17.65

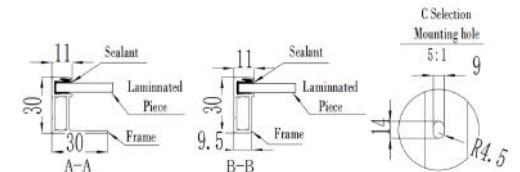
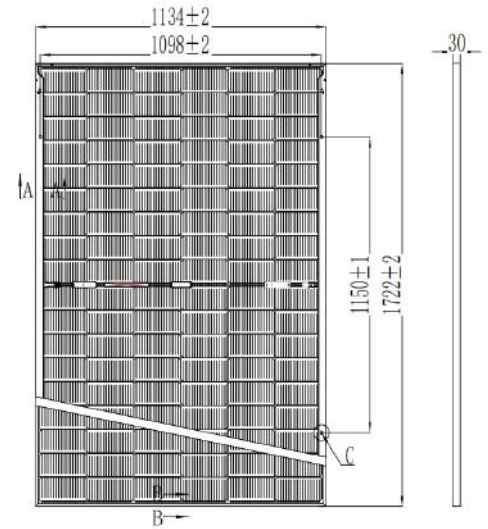
TEMPERATURE CHARACTERISTICS	
Cell Operating Temperature	45±2°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Voc	-0.240%/°C
Temperature Coefficient of Pmax	-0.290%/°C

MECHANICAL PARAMETERS			
Cell Type	N Type/MBB/Monocrystalline/Half-Cell		
Number of Cells	108(6×9×2)		
Weight	24.5kg		
Dimension	1722×1134×30mm		
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 <sup>2</sup> / +350mm, -250mm ; or customized length

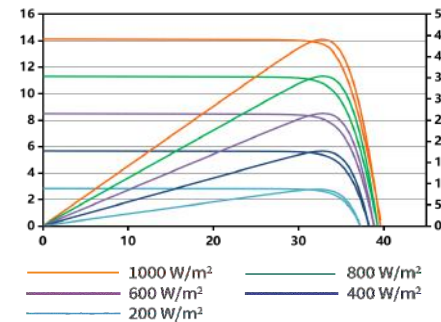
OPERATING CONDITIONS			
Maximum System Voltage	1500V	Max Front Face Static Load (Snow etc)	5400Pa
Operating Temperature	-40°C~+85°C	Max Rear Face Static Load (Wind etc)	2400Pa
Maximum Series Fuse Rating	30A	Installation should strictly obey the installation manual of Solargiga Energy	

PACKING INFORMATION	
36pcs/pallet	936pcs/40'HQ

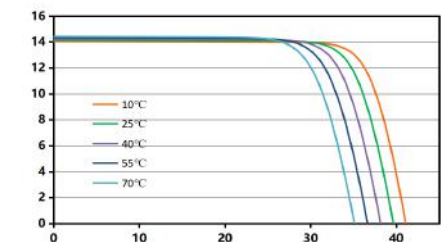
\*Power test uncertainty +/-3%



Current (A) Power-Voltage&Current-Voltage Curve Power (W)



Current (A) Current-Voltage Curve



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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.

