

# Solargiga Energy GiGa 2

JMPV-XV2/54-410~420(R)

MONO-CRYSTALLINE BIFACIAL HALF-CUT MODULE

Maximum Power	Maximum Efficiency	Power Tolerance
420W	21.51%	0~+5W



## CELL TYPE

P Type/MBB/Monocrystalline/Half-Cell



## HIGH EFFICIENCY, HIGH GENERATION

Using bifacial PERC cell technology, absorbs the reflected and scattered light in the environment effectively, gain 5-25% more energy.



## 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

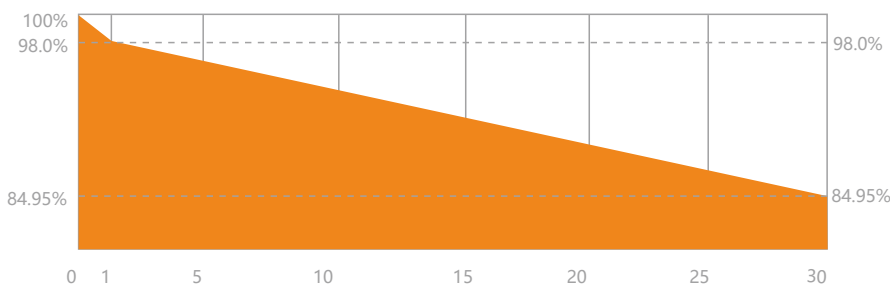
IEC 61701: Salt Spray Test

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-XV2/54-410~420(R)

MODEL NUMBER	JMPV-XV2/54 -410 ~420 (R)		
<b>ELECTRICAL PARAMETERS (STC)</b>			
Max Power (Pmax/W)	410	415	420
Max Power Voltage(Vmp/V)	31.74	31.93	32.12
Max Power Current (Imp/A)	12.92	13.00	13.08
Open Circuit Voltage(Voc/V)	37.75	38.04	38.36
Short Circuit Current (Isc/A)	13.83	13.89	13.94
Module Efficiency (%)	21.00	21.25	21.51

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

<b>ELECTRICAL PARAMETERS (NMOT)</b>			
Max Power (Pmax/W)	306.15	309.80	313.77
Max Power Voltage(Vmp/V)	29.58	29.76	29.94
Max Power Current (Imp/A)	10.35	10.41	10.48
Open Circuit Voltage(Voc/V)	35.30	35.57	35.87
Short Circuit Current (Isc/A)	11.16	11.21	11.25

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

<b>BIFACIAL GENERATION DATA (420W FOR EXAMPLE)</b> <small>Bifacial generation varies relying on albedo, height from ground, interval etc. Below data are for reference only.</small>			
Power Gain	5%	15%	25%
Maximum Power (W)	441.00	483.08	525.16
Module Efficiency (%)	22.58	24.74	26.89
Max Power Voltage(Vmp/V)	32.12	32.12	32.12
Max Power Current(Imp/A)	13.73	15.04	16.35
Open Circuit Voltage(Voc/V)	38.36	38.36	38.36
Short Circuit Current(Isc/A)	14.64	16.03	17.43

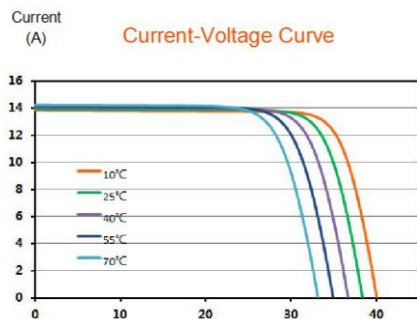
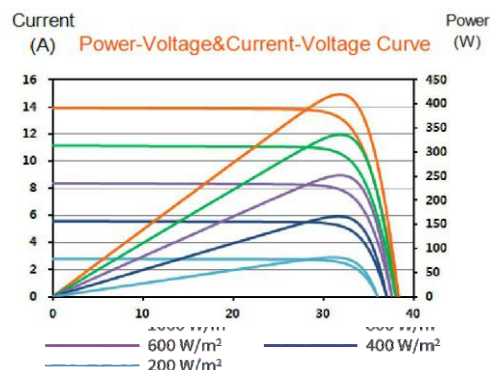
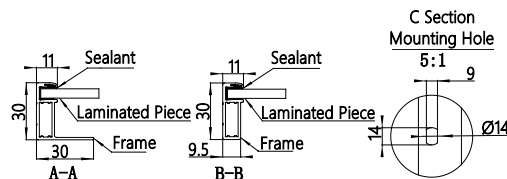
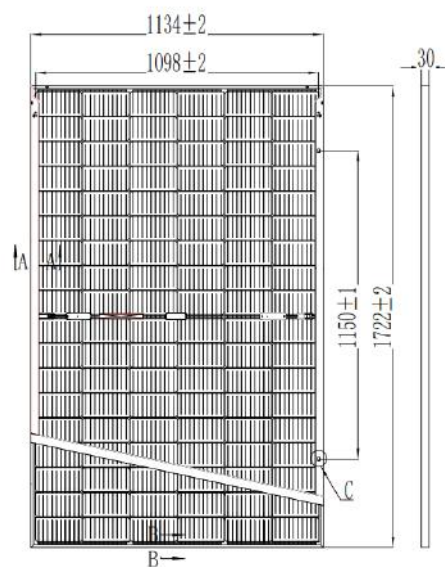
<b>TEMPERATURE CHARACTERISTICS</b>	
Cell Operating Temperature	45±2°C
Temperature Coefficient of Isc	0.049%/°C
Temperature Coefficient of Voc	-0.267%/°C
Temperature Coefficient of Pmax	-0.349%/°C

<b>MECHANICAL PARAMETERS</b>			
Cell Type	P Type/MBB/Monocrystalline/Half-Cell		
Number of Cells	108(6×9×2)		
Weight	24.5±1kg		
Dimension	1722×1134×30mm		
Front Glass	Semi-tempered embossed coated glass	Frame	Anodized Aluminum
Encapsulating Material	EVA/POE	Junction Box	Protection Degree IP68
Back Glass	Semi-tempered embossed/high-reflection	Cable	4.0 mm <sup>2</sup> /+350,-250mm or customized length

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

<b>PACKING INFORMATION</b>	
36pcs/pallet	936pcs/40'HQ

\*Power test uncertainty +/-3%



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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 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.

