

# Solargiga Energy GiGa 2

JMPV-X1/60-450~465(R)

MONO-CRYSTALLINE CONVENTIONAL HALF-CUT MODULE

Maximum Power	Maximum Efficiency	Power Tolerance
465W	21.49%	0~+5W



## CELL TYPE

P Type/MBB/Monocrystalline/Half-Cell



## HIGH EFFICIENCY, HIGH GENERATION

Based on 182mm wafer, more uniform current collection capability, Half-Cell design reduces internal current and internal loss and improves output of module power.



## 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

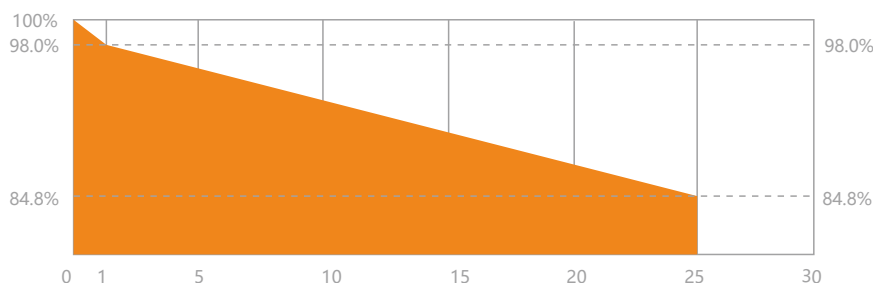
IEC 61701: Salt Spray Test

IEC 62716: Ammonia Corrosion Test

IEC 60068-2-68 : Dust and Sand Test

12 YEARS Product Warranty

25 YEARS Power Output Warranty



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 CONVENTIONAL HALF-CUT MODULE JMPV-X1/60-450~465(R)

MODEL NUMBER	JMPV-X1/60-450~465 (R)			
<b>ELECTRICAL PARAMETERS (STC)</b>				
Max Power (Pmax/W)	450	455	460	465
Max Power Voltage(Vmp/V)	34.57	34.76	34.96	35.15
Max Power Current (Imp/A)	13.02	13.09	13.16	13.23
Open Circuit Voltage(Voc/V)	41.71	41.98	42.22	42.43
Short Circuit Current (Isc/A)	13.74	13.80	13.87	13.95
Module Efficiency (%)	20.80	21.03	21.26	21.49

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

<b>ELECTRICAL PARAMETERS (NMOT)</b>				
Max Power (Pmax/W)	337.34	341.17	345.12	348.56
Max Power Voltage(Vmp/V)	32.22	32.40	32.59	32.76
Max Power Current (Imp/A)	10.47	10.53	10.59	10.64
Open Circuit Voltage(Voc/V)	39.53	39.79	40.01	40.21
Short Circuit Current (Isc/A)	11.14	11.19	11.25	11.31

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

<b>TEMPERATURE CHARACTERISTICS</b>	
Cell Operating Temperature	42.5±2°C
Temperature Coefficient of Isc	0.054%/ °C
Temperature Coefficient of Voc	- 0.262%/ °C
Temperature Coefficient of Pmax	- 0.341%/ °C

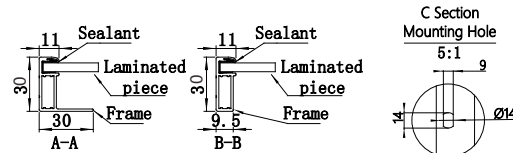
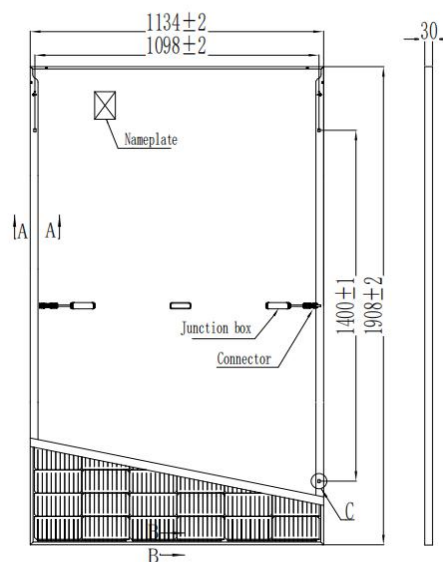
<b>MECHANICAL PARAMETERS</b>	
Cell Type	P Type/MBB/Monocrystalline/Half-Cell
Number of Cells	120 (6×10×2)
Weight	24±1.0kg
Dimension	1908×1134×30mm
Glass	3.2mm Tempered Coated Glass
Encapsulating Material	EVA
Backsheet	Fluorinated backsheet /Fluorine-free backsheet
Frame	Anodized Aluminum
Junction Box	Protection Degree IP68
Cable	4.0 mm <sup>2</sup> /+350,-250mm or Customized Length

<b>OPERATING CONDITIONS</b>	
Max System Voltage	1500V
Operating Temperature	-40°C~+85°C
Max Series Fuse Rating	25A
Front Face Static Load (snow etc)	5400Pa
Rear Face Static Load (wind etc)	2400Pa

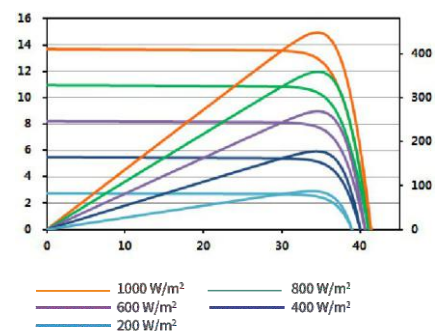
Installation should strictly obey the installation Manual of Solargiga Energy.

<b>PACKING INFORMATION</b>	
36pcs/pallet	864pcs/40'HQ

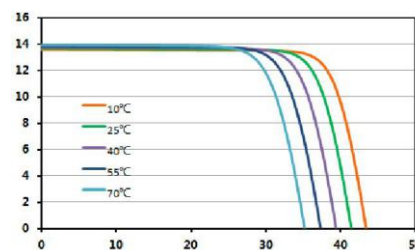
\*Power Test Uncertainty +/-3%



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

