

Thunder

JSM-400M72

380 ~ 400 W

Power Output Range

72 CELL

Monocrystalline Module

20.1%

Maximum Efficiency

0~+5W

Positive Power Tolerance



5 Busbar MONO PERC Solar cell

Unique cell design leads reduction in electrodes resistance, shading area and raise in conversion efficiency.



Highly reliable due to stringent quality control

All modules have to pass all kind of inspections & more than 15 tests.



Higher power output

The power generation can increase up to 10%.



Ideal for large scale installations

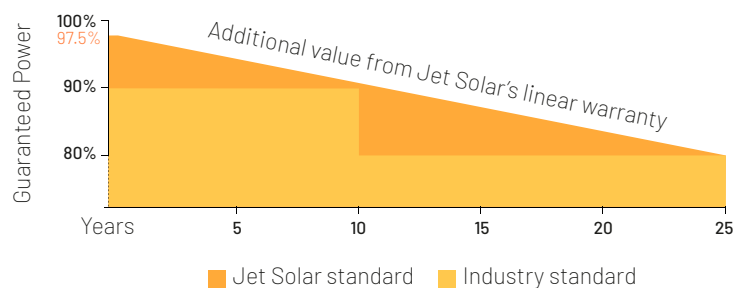
Optimized for tracker installation.



Excellent weak light performance

More power output in weak light condition, such as haze and cloudy.

25 Years Linear Warranty



10 10 years warrenty

25 25 years preformance warrenty

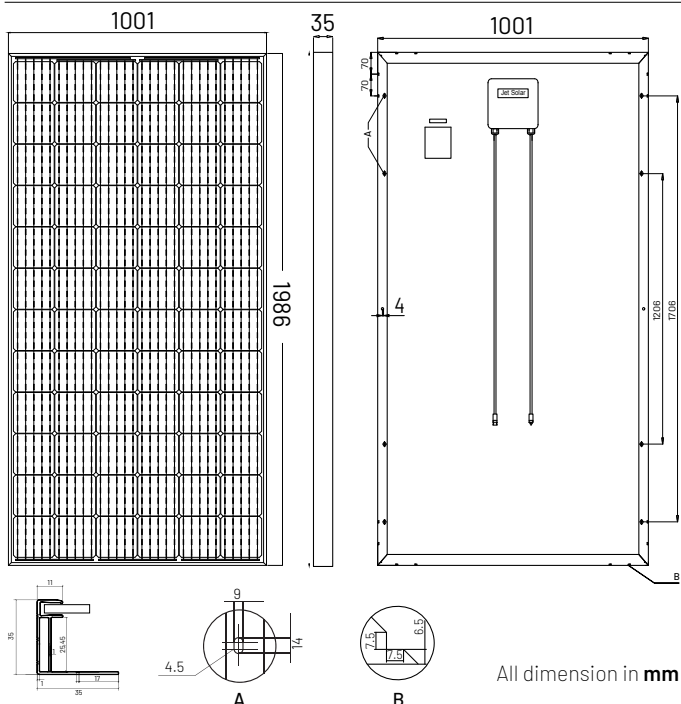
Electrical Characteristics

Measuring tolerance $\pm 3\%$

STC: AM=1.5 Irradiance=1000W/m² Cell Temp.=25°C

NOCT: AM=1.5 Irradiance=800W/m² Ambient Temp.=20°C Wind Speed=1m/s

Module Type	JSM-380M72		JSM-385M72		JSM-390M72		JSM-395M72		JSM-400M72	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	380	306	385	315	390	317	395	318.5	400	318.8
Voltage at Maximum Power (Vmp)	39.7	39.9	40.05	40.88	40.6	40.71	41.4	41.49	41.7	41.53
Current at Maximum Power (Imp)	9.58	7.66	9.6	7.7	9.56	7.78	9.55	7.67	9.63	7.67
Open Circuit Voltage (Voc)	48.45	48.59	49.08	49.29	49.3	49.48	49.5	49.63	49.8	49.93
Short Circuit Current (Isc)	9.9	7.9	10.24	8.19	10.12	8.24	10.23	8.26	10.36	8.27
Module Efficiency (%)	19.14		19.36		19.61		19.86		20.1	



All dimension in mm

Mechanical Parameters

Solar Cells	Monocrystalline PERC 158.75X158.75 mm
Cell Orientation	72 Cells (6X12)
Module Dimensions	1986 X 1001 X 35 mm
Weight	20.6 KG
Glass	3.2 mm, high transparency, AR coated and heat tempered solar glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP67, three diodes
Cables	Photovoltaic Technology Cable 4.0 mm ²
Connector	EU Countries: 28 MC4 / UTX / TS4

Electrical Characteristics

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ +5W
Voc and Isc Tolerance	$\pm 3\%$
Maximum System Voltage	DC1500V (IEC/UL)
Maximum Series Fuse Rating	20A
Nominal Operating Cell Temperature	45 ± 2 °C

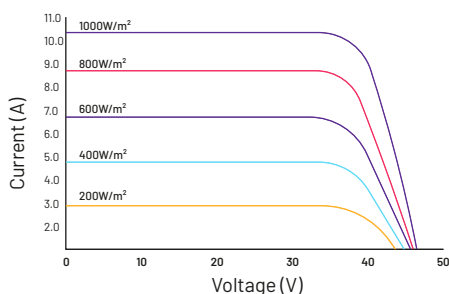
Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
HailStone Test	25mm

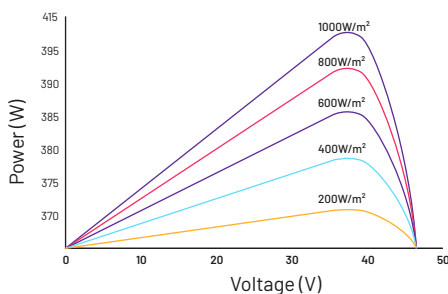
Temperature Rating (STC)

Temperature Coefficient of Isc	+0.07%/°C
Temperature Coefficient of Voc	-0.36%/°C
Temperature Coefficient of Pmax	-0.38%/°C

I-V Curves of PV module (JSM-400M72)



P-V Curves of PV module (JSM-400M72)



I-V Curves of PV module (JSM-400M72)

