

# ALPHA 2023

## JSM-340P72

**325 ~ 340 W**  
Power Output Range

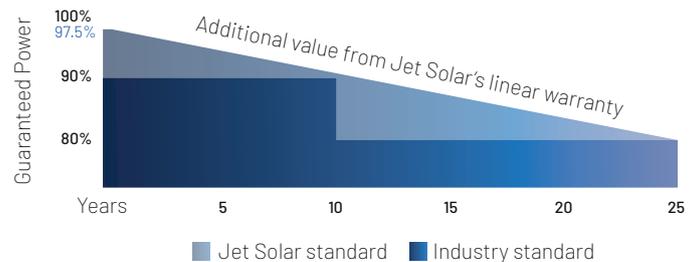
**72 CELL**  
Polycrystalline Module

**17.4%**  
Maximum Efficiency

**0~+5W**  
Positive Power Tolerance



### 25 Years Linear Warranty



#### 5 Busbar POLY 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.



10 years warranty



25 years performance warranty

### Comprehensive Products and System Certificates



ISO 45001 : 2015 :

Occupational health and safety management

ISO 9001 : 2015 :

Quality management system

ISO 14001 : 2015 :

Environmenta mangement system

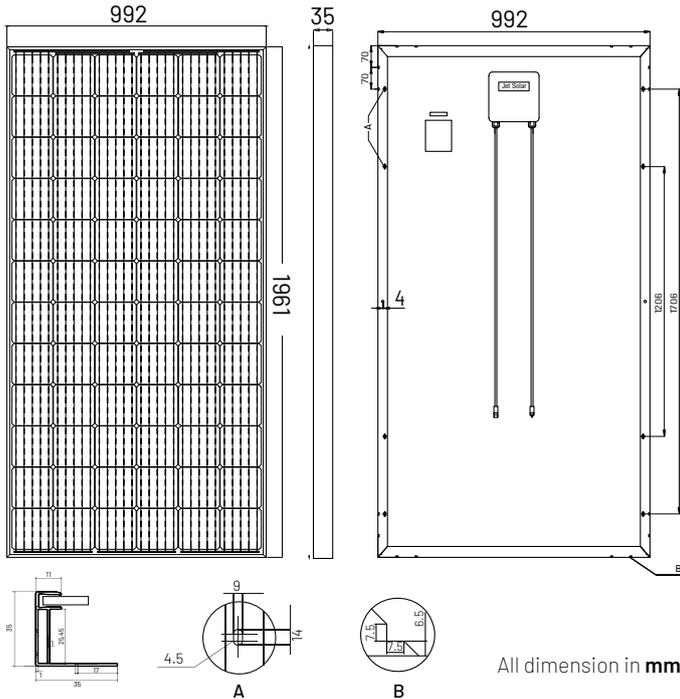
# Electrical Characteristics

Measuring tolerance  $\pm 3\%$

STC: AM=1.5 Irradiance=1000W/m<sup>2</sup> Cell Temp.=25°C

NOCT: AM=1.5 Irradiance=800W/m<sup>2</sup> Ambient Temp.=20°C Wind Speed=1m/s

Module Type	JSM-325P72		JSM-330P72		JSM-335P72		JSM-340M72	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition								
Maximum Power (Pmax)	325	241	330	245	335	249	340	253
Voltage at Maximum Power (Vmp)	37.6	35	37.6	35.3	38.1	35.6	37.8	35.9
Current at Maximum Power (Imp)	8.66	6.89	8.7	6.94	8.8	6.99	8.99	7.05
Open Circuit Voltage (Voc)	45.5	43.3	45.7	43.6	46.1	43.8	46.4	44
Short Circuit Current (Isc)	9.10	7.40	9.14	7.45	9.18	7.52	9.58	7.98
Module Efficiency (%)	16.7		16.9		17.2		17.4	



## Mechanical Parameters

Solar Cells	Polycrystalline 157X157 mm
Cell Orientation	72 Cells (6X12)
Module Dimensions	1961 X 992 X 35 mm
Weight	20.4 KG
Glass	3.2 mm, high transparency, AR coated and heat tempered solar glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP68, three diodes
Cables	Photovoltaic Technology Cable 4.0 mm <sup>2</sup>
Connector	DJ2011-4X

## 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 $\pm 2$ °C

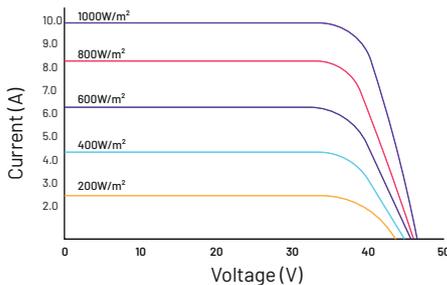
## Mechanical Loading

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

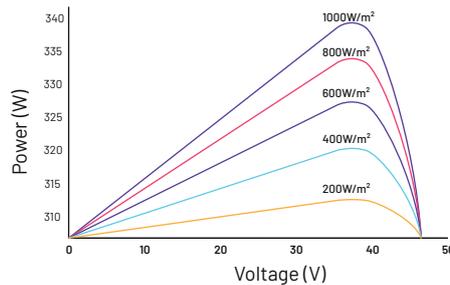
## Temperature Rating (STC)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Pmax	-0.40%/°C

I-V Curves of PV module (JSM-340P72)



P-V Curves of PV module (JSM-340P72)



I-V Curves of PV module (JSM-340P72)

