

## VSUN345-72M

VSUN345-72M  
VSUN335-72M

VSUN340-72M  
VSUN330-72M

17.82%

Module efficiency

10 years

Material & Workmanship warranty

345W

Highest power output

25 years

Linear power output warranty



PID-free



World class mono efficiency



Tighter product performance distribution and current sorting reduces the mismatch power loss in system operation



Positive tolerance offer



Good temperature coefficient enables higher output in high temperature regions



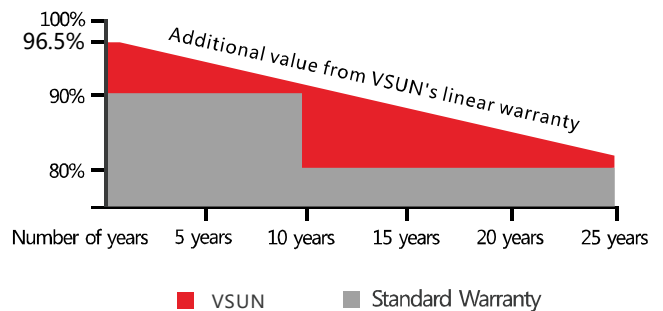
Excellent performance under low light conditions



Certified for salt/ammonia corrosion resistance



Load certificates: wind to 2400Pa and snow to 5400Pa



- 10-year product warranty
- 25-year linear power output warranty

Vietnam Sunergy Company Limited (VSUN) is a global company providing high-performance solar modules for reliable green power generation.

Through strict selection of raw materials, stringent quality control and rigorous tests, VSUN always commits to higher efficiency, more stable and better cost effective products supply.

VSUN offers PV project development and investments and provides full package of service for EPC solutions.

Note:

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## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN345-72M	VSUN340-72M	VSUN335-72M	VSUN330-72M
Maximum Power - Pmax (W)	345	340	335	330
Open Circuit Voltage - Voc (V)	46.7	46.5	46.3	46.1
Short Circuit Current - Isc (A)	9.38	9.41	9.32	9.23
Maximum Power Voltage - Vmpp (V)	38	38.3	38.1	37.9
Maximum Power Current - Imp (A)	9.09	8.89	8.79	8.72
Module Efficiency	17.82%	17.56%	17.30%	17.04%

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; AM 1.5; module temperature 25°C. Tolerance of Pmp: 0~+3%.  
 Measuring uncertainty of power: ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

## Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module Type	VSUN345-72M	VSUN340-72M	VSUN335-72M	VSUN330-72M
Maximum Power - Pmax (W)	254.3	249.9	245.8	242.7
Open Circuit Voltage - Voc (V)	42.9	42.8	42.6	42.5
Short Circuit Current - Isc (A)	7.56	7.59	7.51	7.44
Maximum Power Voltage - Vmpp (V)	35.7	35.1	34.9	34.8
Maximum Power Current - Imp (A)	7.12	7.12	7.04	6.98

Normal Operating Cell Temperature( NOCT) : irradiance 800W/m<sup>2</sup>; wind speed 1 m/s ; cell temperature 45°C; ambient temperature 20°C.  
 Measuring uncertainty of power: ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

## Temperature Characteristics

NOCT	45°C(±2°C)	Maximum System Voltage [V]	1000
Voltage Temperature Coefficient	-0.307%/K	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.039%/K		
Power Temperature Coefficient	-0.423%/K		

## Maximum Ratings

## Material Characteristics

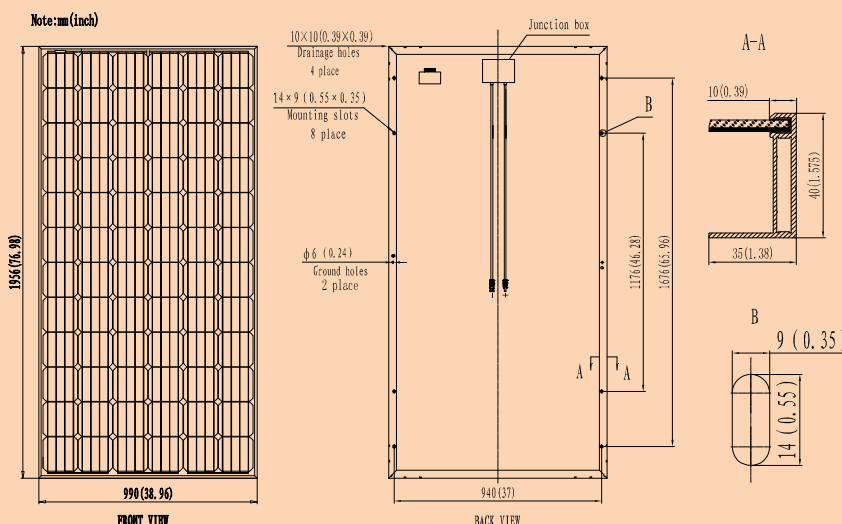
Dimensions	1956×990×40mm (L×W×H)
Weight	22.0kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×12 pieces monocrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length 1200 mm, 1×4 mm <sup>2</sup> , compatible with MC4

## Packaging

Dimensions(L×W×H)	1980×1110×1120mm	Temperature Range	-40 °C to + 85 °C
Container20'	260	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s-1
Container40'	624	Maximum Surface Load	5,400 Pa
Container40'HC	684	Application class	class A
		Safety class	class II

## System Design

## Dimensions



## IV-Curves

