

# VSUN

Innovative & Smart



## VSUN320-60M

VSUN320-60M  
VSUN310-60M  
VSUN300-60M

VSUN315-60M  
VSUN305-60M

19.71%

Module efficiency

12years

Material & Workmanship warranty

320W

Highest power output

25years

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



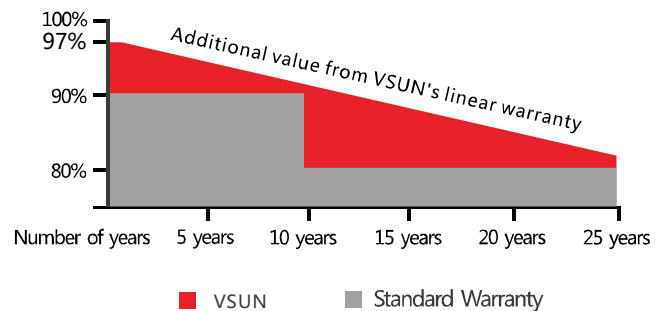
Excellent performance under  
low light conditions



Certified for salt/ammonia  
corrosion resistance



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



Munich RE 

-12-year product warranty

-25-year linear power output warranty

Invested by Fuji Solar, VSUN is a Japanese solar module solutions provider located in Tokyo that offers Japanese quality solar technologies globally. The group's business started in Japan in 2006, later spreading to North America, Southeast Asia, and EMEA.

Innovative & Smart – VSUN has been committed to providing greener, cleaner, and more intelligent renewable energy solutions. It is focusing on the new energy market and the development of customized and high-efficiency products.

Note:

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A Sub-company of **FUJISOLAR**



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## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN320-60M	VSUN315-60M	VSUN310-60M	VSUN305-60M	VSUN300-60M
Maximum Power - Pmax (W)	320	315	310	305	300
Open Circuit Voltage - Voc (V)	40.4	40.2	40.1	39.9	39.8
Short Circuit Current - Isc (A)	10.03	9.95	9.87	9.72	9.6
Maximum Power Voltage - Vmpp (V)	33	32.8	32.6	32.4	32.2
Maximum Power Current - Imp (A)	9.7	9.61	9.52	9.42	9.31
Module Efficiency	19.71%	19.40%	19.09%	18.79%	18.48%

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; AM 1.5; module temperature 25°C. Tolerance of Pmpp: 0~+3%.  
Measuring uncertainty of power: ±3%.

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

Module Type	VSUN320-60M	VSUN315-60M	VSUN310-60M	VSUN305-60M	VSUN300-60M
Maximum Power - Pmax (W)	237.4	233.7	230.3	226.8	223
Open Circuit Voltage - Voc (V)	37.3	37.2	37.1	36.9	36.8
Short Circuit Current - Isc (A)	8.1	8.04	7.98	7.86	7.76
Maximum Power Voltage - Vmpp (V)	31	30.8	30.6	30.5	30.4
Maximum Power Current - Imp (A)	7.66	7.59	7.52	7.42	7.33

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%.

## Temperature Characteristics

NOCT	45°C ( ±2°C )	Maximum System Voltage [V]	1000
Voltage Temperature Coefficient	-0.29%/°C	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.05%/°C		
Power Temperature Coefficient	-0.39%/°C		

## Maximum Ratings

## Material Characteristics

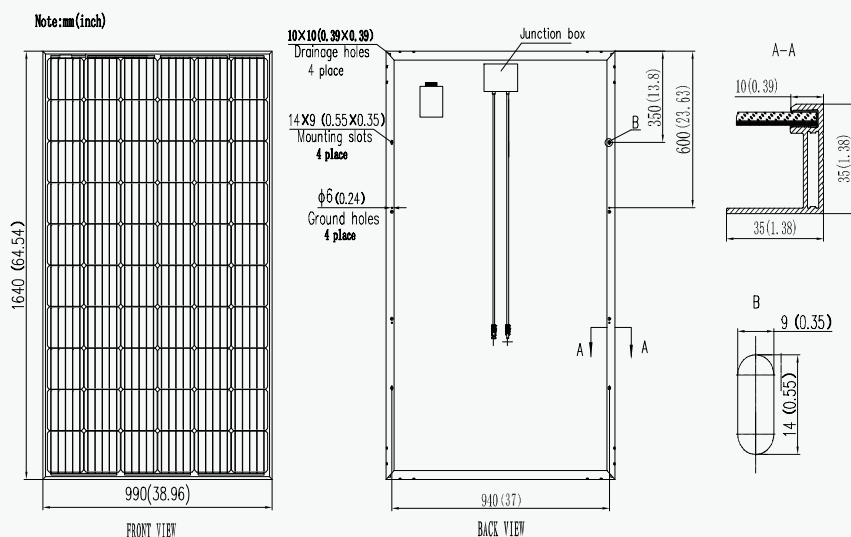
Dimensions	1640×990×35mm (L×W×H)
Weight	18.3kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Glass	Composite film
Cells	6×10 pieces monocrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated current≥13A, IP≥67, TUV&UL
Cable&Connector	Length 900 mm, 1×4 mm <sup>2</sup> , compatible with MC4

## Packaging

Dimensions(L×W×H)	1680×1110×1120mm	Temperature Range	-40 °C to + 85 °C
Container 20'	360	Withstanding Hail	Maximum diameter of 25 mm with impact
Container 40'	840		speed of 23 m/s
Container 40'HC	910	Maximum Surface Load	5,400 Pa
		Application class	class A

## System Design

## Dimensions



## IV-Curves

