

VSUN320-60M-BW

VSUN320-60M-BW VSUN310-60M-BW VSUN300-60M-BW VSUN315-60M-BW VSUN305-60M-BW

19.71% Module efficiency

320W Highest power output

PID-free

World class mono efficiency

Tighter product performance

in system operation

Positive tolerance offer

temperature regions

low light conditions

corrosion resistance

distribution and current sorting reduces the mismatch power loss

Good temperature coefficient

enables higher output in high

Excellent performance under

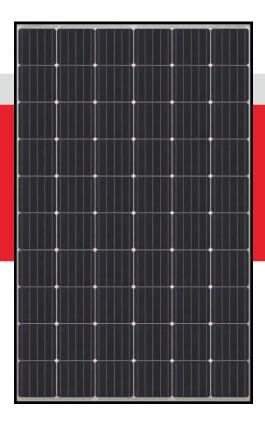
Certified for salt/ammonia

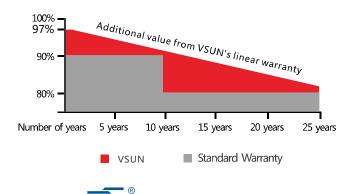
Load certificates: wind to

2400Pa and snow to 5400Pa

12years Material & Workmanship warranty

25years Linear power output warranty





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:

PV CYCLE

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A Sub-company of **FUJISELAR**







CE

Originated from Japan vsun@vietnamsunergy.com WWW.VSUN-SOlar.COM

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN320-60M-BW	VSUN315-60M-BW	VSUN310-60M-BW	VSUN305-60M-BW	VSUN300-60M-BW
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 - Impp (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/m²; 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)

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Module Type	VSUN320-60M-BW	VSUN315-60M-BW	VSUN310-60M-BW	VSUN305-60M-BW	VSUN300-60M-BW
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 - Impp (A)	7.66	7.59	7.52	7.42	7.33
	2				

Normal Operating Cell Temperature ((NOCT) : irradiance 800W/m²; wind speed 1 m/s ; cell temperature 45°C; ambient temperature 20°C.

Measuring uncertainty of power: ±3%.

Temperature Characteristics

Maximum Ratings

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

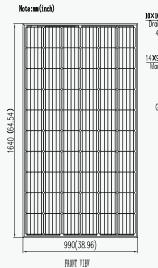
Material Characteristics

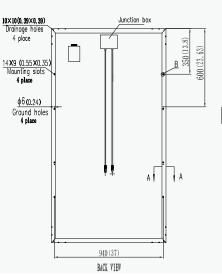
Dimensions	1640×990×35mm (L×W×H)		
Weight	18.3kg		
Frame	Anodized aluminum profile		
Front Glass	White toughened safety glass, 3.2 mm		
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)		
Back Glass	Composite film		
Cells	6×10 pieces monocrystalline solar cells series strings (156.75mm×156.75mm)		
Junction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

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

Dimensions





IV-Curves

A-A

35(1.38)

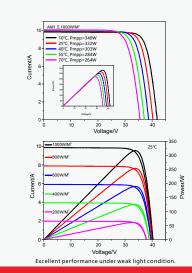
В

9 (0.35)

22

38) 35(1.

10(0.39)



Originated from Japan vsun@vietnamsunergy.com www.vsun-solar.com