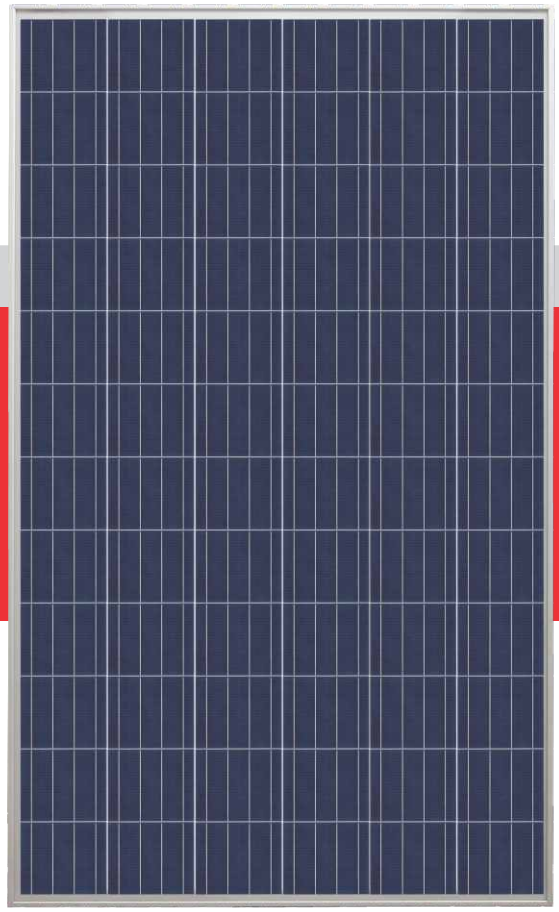
VSUN

Innovative & Smart



VSUN330-72P

VSUN330-60P VSUN325-60P
VSUN320-60P VSUN315-60P

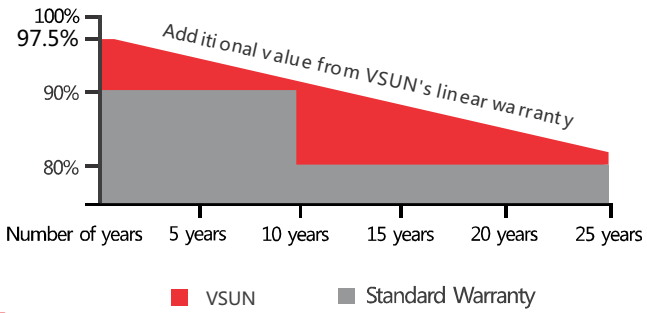
17.04%
Module efficiency

10years
Material & Workmanship warranty

330W
Highest power output

25years
Linear power output warranty

- PID-free
- World class poly efficiency
- Tighter porduct 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



PowerGuard™ SPECIALTY INSURANCE SERVICES
- 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 has always committed 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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Originated from Japan
vsun@vietnamsunergy.com
www.vsun-solar.com

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN330-72P	VSUN325-72P	VSUN320-72P	VSUN315-72P
Maximum Power - Pmax (W)	330	325	320	315
Open Circuit Voltage - Voc (V)	46.2	46	45.9	45.7
Short Circuit Current - Isc (A)	9.27	9.19	9.1	9.01
Maximum Power Voltage - Vmpp (V)	37.8	37.6	37.3	37.1
Maximum Power Current - Impp (A)	8.75	8.66	8.57	8.48
Module Efficiency	17.04%	16.78%	16.53%	16.27%

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%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

Electrical Characteristics at Normal Operating Cell Temperature(NOCT)

Module Type	VSUN330-72P	VSUN325-72P	VSUN320-72P	VSUN315-72P
Maximum Power - Pmax (W)	239	235	231	228
Open Circuit Voltage - Voc (V)	42.4	42.4	42.2	42.1
Short Circuit Current - Isc (A)	7.42	7.35	7.27	7.19
Maximum Power Voltage - Vmpp (V)	34.6	34.4	34.2	34.2
Maximum Power Current - Impp (A)	6.91	6.82	6.74	6.67

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

Measuring uncertainty of power: ±3%. Certified in accordance with IEC 61215, IEC 61730-1/2 and UL 1703.

Temperature Characteristics

NOCT	45℃ (±2℃)
Voltage Temperature Coefficient	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

Maximum Ratings

Maximum System Voltage [V]	1000
Series Fuse Rating [A]	20

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 polycrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated current≧13A, IP≧67, TUV&UL
Cable&Connector	Length 1200 mm, 1×4 mm², compatible with MC4

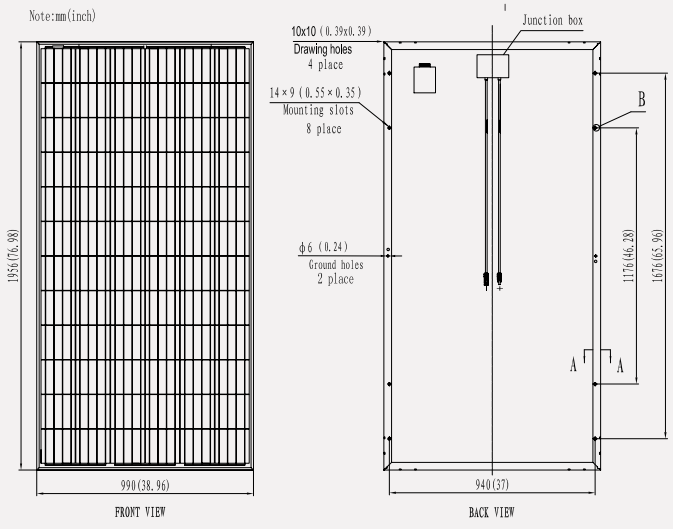
Packaging

Dimensions(LÔWÔH)	1980×1110×1120mm
Container20'	260
Container40'	624
Container40'HC	672

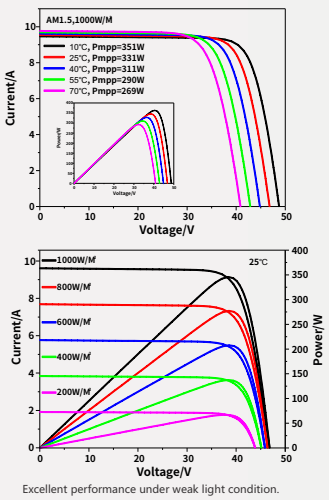
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m·s^{-1}
Maximum Surface Road	5,400 Pa
Application class	class A
Safety class	class Ⅱ

Dimensions



IV-Curves



Excellent performance under weak light condition.

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