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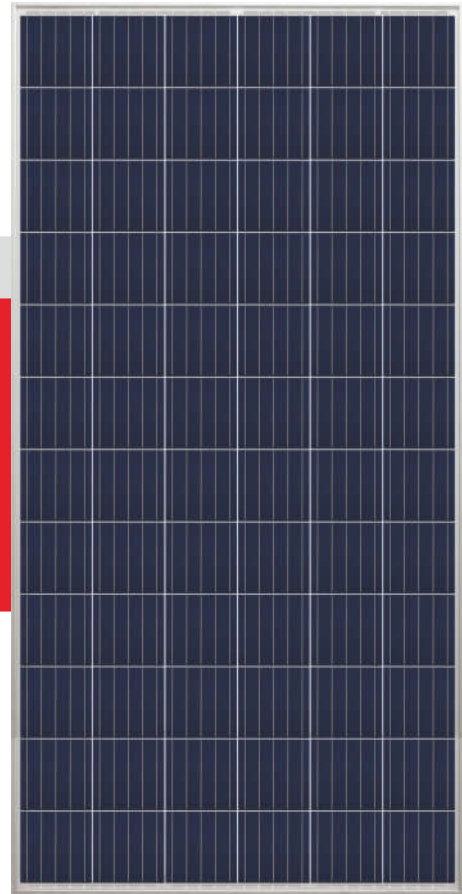
**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**VSUN SOLAR  
VSUN350-72PH  
VSUN330-72PH**

Also available on the web at  
[EnergyPal.com/vsun-solar-solar-panels/vsun330-72ph](http://EnergyPal.com/vsun-solar-solar-panels/vsun330-72ph)



## VSUN350-72PH



VSUN350-72PH      VSUN345-72PH  
 VSUN340-72PH      VSUN335-72PH  
 VSUN330-72PH

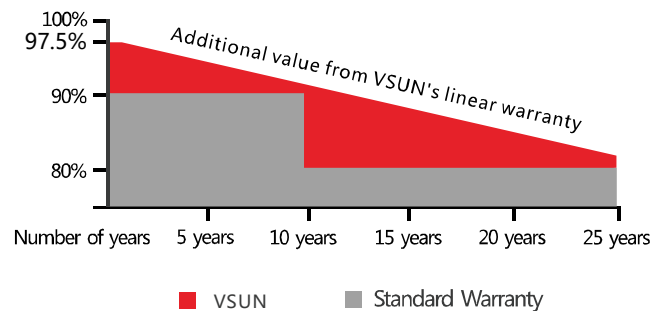
**18.07%**  
 Module efficiency


**12years**  
 Material & Workmanship warranty

**350W**  
 Highest power output

**25years**  
 Linear power output warranty

-  PID-free
-  World class poly 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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## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN350-72PH	VSUN345-72PH	VSUN340-72PH	VSUN335-72PH	VSUN330-72PH
Maximum Power - Pmax (W)	350	345	340	335	330
Open Circuit Voltage - Voc (V)	46.6	46.5	46.3	46.2	46.1
Short Circuit Current - Isc (A)	9.71	9.6	9.5	9.37	9.28
Maximum Power Voltage - Vmpp (V)	38.3	38.2	38.1	38	37.8
Maximum Power Current - Imp (A)	9.15	9.04	8.94	8.84	8.75
Module Efficiency	18.07%	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%.

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

Module Type	VSUN350-72PH	VSUN345-72PH	VSUN340-72PH	VSUN335-72PH	VSUN330-72PH
Maximum Power - Pmax (W)	258.1	254.4	250.9	247.4	243.8
Open Circuit Voltage - Voc (V)	43	42.9	42.7	42.6	42.6
Short Circuit Current - Isc (A)	7.84	7.75	7.67	7.56	7.49
Maximum Power Voltage - Vmpp (V)	35.2	35.1	34.9	34.9	34.7
Maximum Power Current - Imp (A)	7.34	7.26	7.19	7.09	7.02

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]	1500
Voltage Temperature Coefficient	-0.292%/°C	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.045%/°C		
Power Temperature Coefficient	-0.408%/°C		

## Maximum Ratings

## Material Characteristics

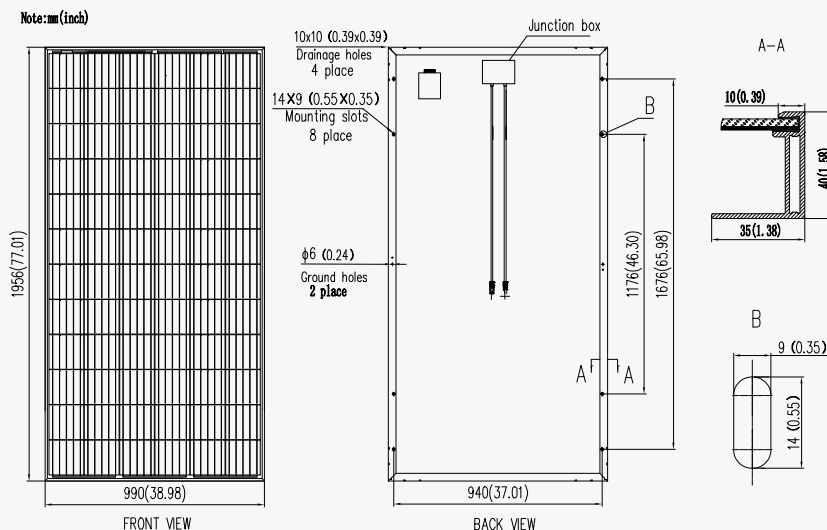
Dimensions	1956×990×40mm (L×W×H)
Weight	22.0kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Glass	Composite film
Cells	6×12 pieces polycrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated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

## Packaging

Dimensions(L×W×H)	1980×1130×1120mm	Temperature Range	-40 °C to + 85 °C
Container 20'	270	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Container 40'	648		5,400 Pa
Container 40'HC	708	Maximum Surface Load	class A
		Application class	

## System Design

## Dimensions



## IV-Curves

