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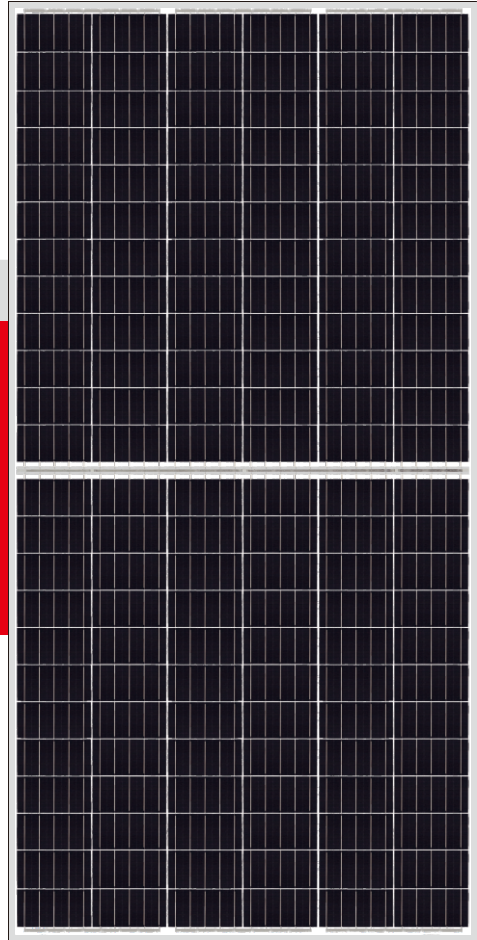
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# **EnergyPal**

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

**VSUN SOLAR  
VSUN400-144M  
VSUN395-144M**

Also available on the web at  
[EnergyPal.com/vsun-solar-solar-panels/vsun395-144m](http://EnergyPal.com/vsun-solar-solar-panels/vsun395-144m)



## VSUN400-144M

### The Half Cell Module

VSUN400-144M      VSUN395-144M  
 VSUN390-144M      VSUN385-144M

**19.92%**

Module efficiency

**12years**

Material & Workmanship warranty

**400W**

Highest power output

**25years**

Linear power output warranty



PERC Cell Technology



Higher output power



Lower risk of micro-crack



Positive tolerance offer



Lower risk of hot spot



Better shading tolerance



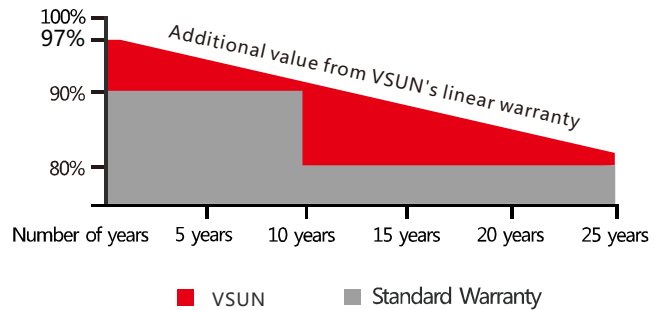
Certified for salt/ammonia corrosion resistance




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



Lower LCOE



**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 covers Japan, North America, Southeast Asia and EMEA since 2006. Solar module manufacturing base is located in Vietnam, Bac Giang province, and it is one of the fastest-growing, most heavily invested and most promising solar high-tech enterprises in the country.

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.

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	VSUN400-144M	VSUN395-144M	VSUN390-144M	VSUN385-144M
Maximum Power - Pmax (W)	400	395	390	385
Open Circuit Voltage - Voc (V)	48.9	48.7	48.5	48.4
Short Circuit Current - Isc (A)	10.33	10.26	10.19	10.12
Maximum Power Voltage - Vmpp (V)	40.7	40.5	40.3	40.2
Maximum Power Current - Imp (A)	9.85	9.77	9.68	9.59
Module Efficiency	19.92%	19.67%	19.42%	19.17%

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	VSUN400-144M	VSUN395-144M	VSUN390-144M	VSUN385-144M
Maximum Power - Pmax (W)	295.5	291.8	287.8	284.5
Open Circuit Voltage - Voc (V)	45.2	45	44.8	44.7
Short Circuit Current - Isc (A)	8.35	8.29	8.23	8.17
Maximum Power Voltage - Vmpp (V)	37.6	37.4	37.1	37
Maximum Power Current - Imp (A)	7.86	7.81	7.75	7.69

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 )
Voltage Temperature Coefficient	-0.29%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.39%/°C

## Maximum Ratings

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

## Material Characteristics

Dimensions	2004×1002×40mm (L×W×H)
Weight	22.9kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×12 pieces monocrystalline solar cells series strings
Junction Box	Rated current ≥13A, IP≥67, TUV&UL
Cable&Connector	Length 500 mm, 1×4 mm <sup>2</sup> , compatible with MC4

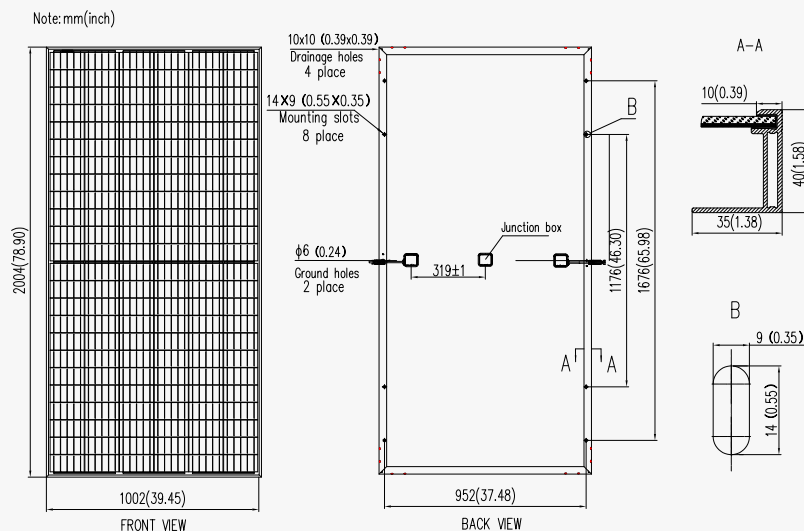
## Packaging

Dimensions(L×W×H)	2030×1110×1132mm
Container20'	270
Container40'	594
Container40'HC	649

## 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 Load	5,400 Pa
Application class	class A

## Dimensions



## IV-Curves

