



# VSUN670-132BMH-DG

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VSUN665-132BMH-DG VSUN655-132BMH-DG

21.57% Module efficiency

0.45% Annual degradation over 30 years

## **ABOUT VSUN**

670W

2.0%

First-year

Highest power output

degradation warranty

#### Invested by Fuji Solar, VSUN SOLAR is a solar solution provider with headquartered in Tokyo, Japan that offers reliability, high efficiency solar products and technology globally. VSUN is rated as BNEF Tier 1 PV module manufacturer, PVEL Lab "Best performer" and EcoVadis "Bronze Award".

#### **PRODUCT CERTIFICATION**



#### WARRANTY



**KEY FEATURES** 

PERC MBB technology with Circular Ribbon Higher output power Half-cell Technology 0-3% Positive tolerance offer Bifacial cells, converting more sunlight into electricity

Better shading tolerance

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

Lower LCOE







Electrical Characteristics at Standard Test Conditions(STC)						
Module Type	VSUN670-132BMH-DG	VSUN665-132BMH-DG	VSUN660-132BMH-DG	VSUN655-132BMH-DG		
Maximum Power - Pmax (W)	670	665	660	655		
Open Circuit Voltage - Voc (V)	45.61	45.46	45.32	45.15		
Short Circuit Current - Isc (A)	18.8	18.73	18.65	18.59		
Maximum Power Voltage - Vmpp (V)	37.94	37.79	37.65	37.48		
Maximum Power Current - Impp (A)	17.66	17.6	17.53	17.48		
Module Efficiency	21.57%	21.41%	21.25%	21.09%		

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; AM 1,5; module temperature 25°C. Pmax Sorting : 0~5W. Measuring Tolerance: ±3%. Remark: Electrical data do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Electrical	Characteristics with	different rear s	ide power gain(	reference to 66	5 front)
Pmax (W)	Voc (V)	lsc (A)	Vmpp (V)	Impp (A)	Pmax gain
698	45.46	19.67	37.79	18.48	5%
732	45.46	20.60	37.79	19.36	10%
798	45.51	22.48	37.73	21.12	20%
831	45.51	23.41	37.73	22.00	25%

### **Material Characteristics**

**Dimensions** 

Dimensions	2384×1303×35mm (L×W×H)
Weight	38.5kg
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells Junction Box	12×11 pieces mono solar cells series strings IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized), 1×4 mm2 or 12AWG, Connector: PV-ZH202B(Manufacturer by Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.)
Packaging	
Dimensions(L×W×H)	1325×1125×2510mm
Container 20'	/
Container 40'	/
Container 40'HC	540

37.79	18.48	5%	
37.79	19.36	10%	
37.73	21.12	20%	
37.73	22.00	25%	
System Design			
Maximum System Voltage	[V]	1500	
Series Fuse Rating [A]		30	
Bifaciality		70%±10%	
Fire Rating	C	Class C for IEC and TYPE 29 for US	
PV module classification		Class II	
Temperature Range		-40 °C to + 85 °C	
Maximum Surface Load		5,400 Pa	
Application class		Class A	
Withstanding Hail	Ν	Maximum diameter of 25 mm with impact speed of 23 m/s	

# Temperature CharacteristicsNOCT45°C(±2°C)Voltage Temperature Coefficient-0.25%/°CCurrent Temperature Coefficient+0.04%/°CPower Temperature Coefficient-0.34%/°C

#### IV-Curves



