

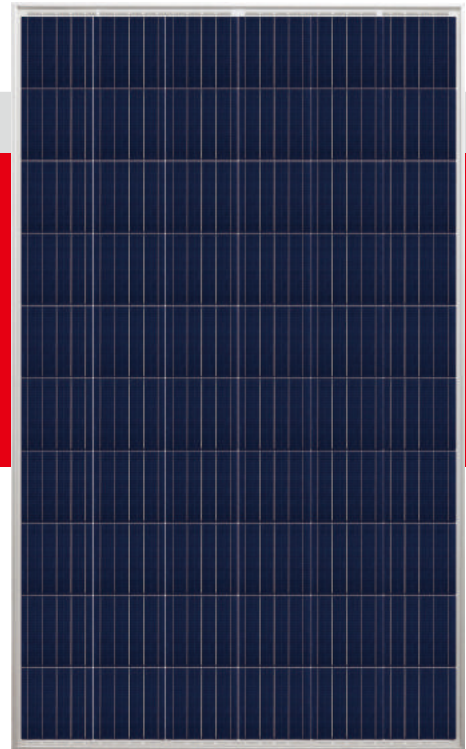
VSUN

Innovative & Smart

VSUN285-60P

VSUN285-60P
VSUN275-60P

VSUN280-60P
VSUN270-60P



17.55%

Module efficiency

10 years

Material & Workmanship warranty

285W

Highest power output

25 years

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



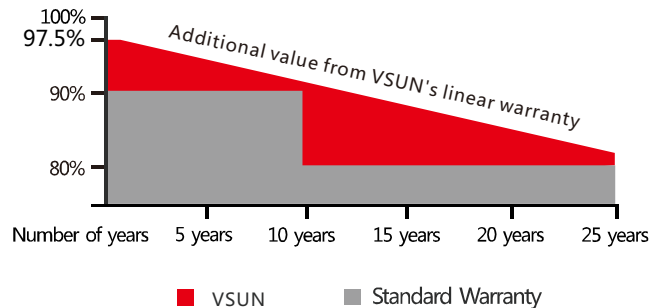
Excellent performance under low light conditions



Certified for salt/ammonia corrosion resistance



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



- 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 always commits 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	VSUN285-60P	VSUN280-60P	VSUN275-60P	VSUN270-60P
Maximum Power - Pmax (W)	285	280	275	270
Open Circuit Voltage - Voc (V)	38.6	38.5	38.4	38.3
Short Circuit Current - Isc (A)	9.49	9.36	9.27	9.19
Maximum Power Voltage - Vmpp (V)	31.6	31.4	31.3	31.2
Maximum Power Current - Imp (A)	9.02	8.91	8.79	8.67
Module Efficiency	17.55%	17.25%	16.94%	16.63%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1.5; module temperature 25°C. Tolerance of P_{mp}: 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	VSUN285-60P	VSUN280-60P	VSUN275-60P	VSUN270-60P
Maximum Power - Pmax (W)	210.1	206.2	202.7	199.3
Open Circuit Voltage - Voc (V)	35.6	35.5	35.6	35.4
Short Circuit Current - Isc (A)	7.66	7.56	7.48	7.42
Maximum Power Voltage - Vmpp (V)	29.2	29.1	28.9	28.8
Maximum Power Current - Imp (A)	7.2	7.09	7.01	6.93

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

Temperature Characteristics

NOCT	45°C (±2°C)	Maximum System Voltage [V]	1000
Voltage Temperature Coefficient	-0.292%/K	Series Fuse Rating [A]	20
Current Temperature Coefficient	+0.045%/K		
Power Temperature Coefficient	-0.408%/K		

Maximum Ratings

Material Characteristics

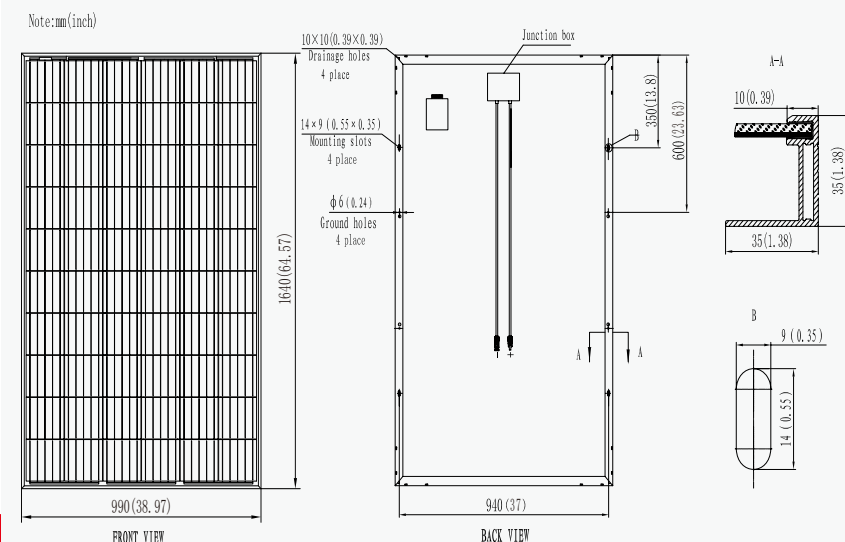
Dimensions	1640×990×35mm (L×W×H)
Weight	18.3kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×10 pieces polycrystalline solar cells series strings (156.75mm×156.75mm)
Junction Box	Rated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

Packaging

Dimensions(LÖWÖH)	1680×1110×1120mm	Temperature Range	-40 °C to + 85 °C
Container20'	360	Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 ms-1
Container40'	840	Maximum Surface Load	5,400 Pa
Container40'HC	910	Application class	class A
		Safety class	class II

System Design

Dimensions



IV-Curves

