

600W

Highest power output

23.23%

Module efficiency

1.0%

First-year degradation warranty

0.40%

Annual degradation over 30 years

12 YEAR
Quality Assurance

30 YEAR
Power Output Guarantee



VSUN600N-144BMH-DG

VSUN600N-144BMH-DG VSUN595N-144BMH-DG

VSUN590N-144BMH-DG VSUN585N-144BMH-DG

VSUN580N-144BMH-DG VSUN575N-144BMH-DG

KEY FEATURES

TOPcon TOPcon technology



Higher output power



MBB technology with Circular Ribbon



Positive tolerance offer



Bifacial cells, converting more sunlight into electricity



Better shading tolerance



Better temperature coefficient



Excellent PID Resistance



Lower LCOE



UL 61730 & CSA 61730

ABOUT VSUN

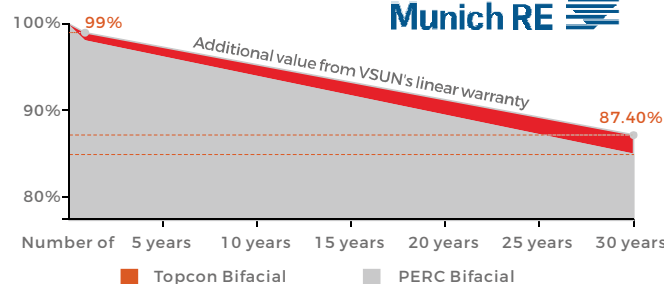
Invested by Fuji Solar, VSUN SOLAR is a solar solution provider with headquartered in Tokyo, Japan that offers reliability, high efficiency solar products and technology globally. VSUN is rated as BNEF Tier 1 PV module manufacturer, PVEL Lab "Best performer" and EcoVadis "Bronze Award".

PRODUCT CERTIFICATION



WARRANTY

Warranty partner



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN600N-144BMH-DG	VSUN595N-144BMH-DG	VSUN590N-144BMH-DG	VSUN585N-144BMH-DG	VSUN580N-144BMH-DG	VSUN575N-144BMH-DG
Maximum Power - Pmax (W)	600	595	590	585	580	575
Open Circuit Voltage - Voc (V)	52.9	52.69	52.48	52.25	52.02	51.81
Short Circuit Current - Isc (A)	14.03	13.98	13.93	13.88	13.83	13.77
Maximum Power Voltage - Vmpp (V)	44.92	44.71	44.5	44.29	44.08	43.86
Maximum Power Current - Impp (A)	13.36	13.31	13.26	13.21	13.16	13.11
Module Efficiency	23.23%	23.03%	22.84%	22.65%	22.45%	22.26%

Standard Test Conditions (STC): irradiance 1,000 W/m²; 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 side power gain(reference to 600 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
630	52.90	14.73	44.92	14.03	5%
649	52.90	15.43	44.92	14.70	10%
708	52.98	16.84	44.84	16.03	20%
738	52.98	17.54	44.84	16.70	25%

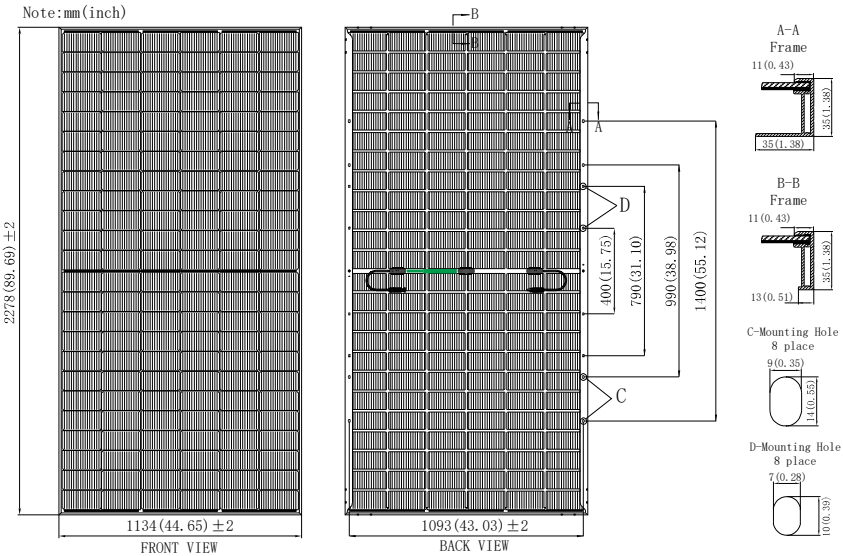
Material Characteristics

Dimensions	2278×1134×35mm (L×W×H) 89.69*44.65*1.38 inches (L×W×H)
Weight	32.7kg / 72.09lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	12×12 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: + / - 1 2 0 0 m m (cable length can be customized) , 1×4 mm2 or 12AWG
Connector	Staubli MC4

Packaging

Dimensions(L×W×H)	2310×1125×1253mm / 90.94*44.29*49.33inches
Quantity per pallet	31 pcs
Container 20'	155
Container 40'	310
Container 40'HC	620 or 558 for US

Dimensions



System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±10%
Fire Rating	Class C for IEC and TYPE 29 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.24%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.29%/°C

IV-Curves

