

12
YEAR
QUALITY ASSURANCE

30
YEAR
POWER OUTPUT GUARANTEE

VSUN455N-108BMHS-DG-BT

VSUN455N-108BMHS-DG-BT VSUN450N-108BMHS-DG-BT
VSUN445N-108BMHS-DG-BT VSUN440N-108BMHS-DG-BT
VSUN435N-108BMHS-DG-BT VSUN430N-108BMHS-DG-BT

455W

Highest power output

22.77%

Module efficiency

1.0%

First-year degradation warranty

0.40%

Annual degradation over 30 years

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
IEC 61215 & IEC 61730

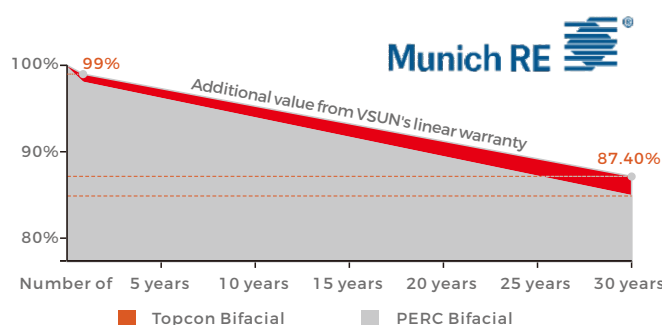
ABOUT VSUN

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



Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN455N-108BMHS-DG-BT	VSUN450N-108BMHS-DG-BT	VSUN445N-108BMHS-DG-BT	VSUN440N-108BMHS-DG-BT	VSUN435N-108BMHS-DG-BT	VSUN430N-108BMHS-DG-BT
Maximum Power - Pmax (W)	455	450	445	440	435	430
Open Circuit Voltage - Voc (V)	39.5	39.3	39.1	38.9	38.7	38.5
Short Circuit Current - Isc (A)	14.55	14.47	14.39	14.31	14.23	14.15
Maximum Power Voltage - Vmpp (V)	32.98	32.8	32.63	32.45	32.27	32.09
Maximum Power Current - Imp (A)	13.8	13.72	13.64	13.56	13.48	13.4
Module Efficiency	22.77%	22.52%	22.27%	22.02%	21.77%	21.52%

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 450 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Imp (A)	Pmax gain
473	39.30	15.19	32.80	14.41	5%
495	39.30	15.92	32.80	15.09	10%
540	39.36	17.36	32.75	16.46	20%
563	39.36	18.09	32.75	17.15	25%

Material Characteristics

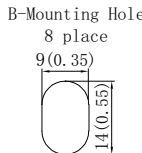
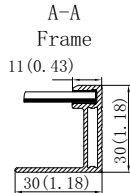
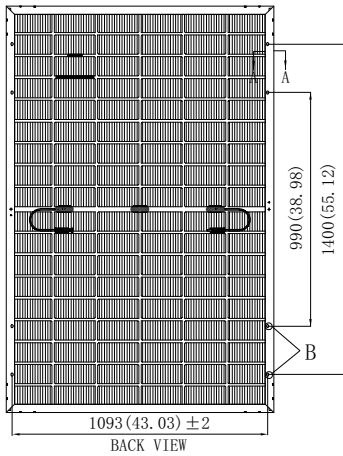
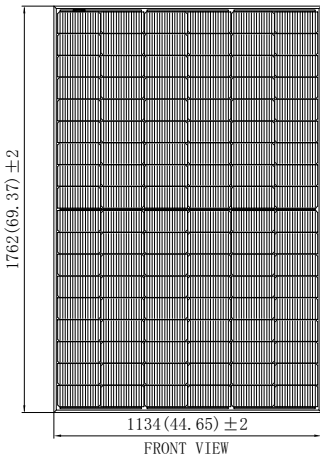
Dimensions	1762×1134×30mm (L×W×H) 69.37×44.65×1.18 inches (L×W×H)
Weight	25.0kg / 55.12lbs
Frame	Black anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Transparent Semi-toughened glass, 2.0mm
Cells	12×9 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: 500 mm (cable length can be customized) , 1×4 mm ² or 12AWG

Packaging

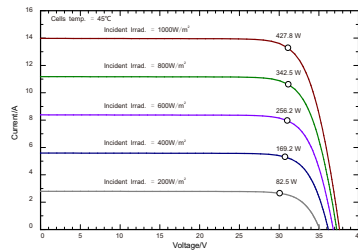
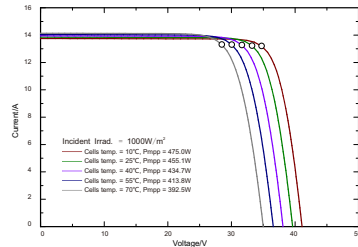
Dimensions(LÔWÔH)	1800×1125×1253mm / 70.87×44.29×49.33inches
Quantity per pallet	35 pcs
Container 20'	210
Container 40'	455
Container 40'HC	910

Dimensions

Note:mm (inch)



IV-Curves



Excellent performance under weak light condition.