VSUN
Innovative & Smart

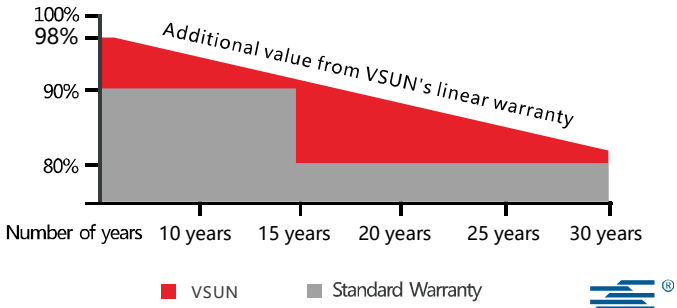
VSUN505-132BMH

505W
Highest power output

21.27%
Module efficiency

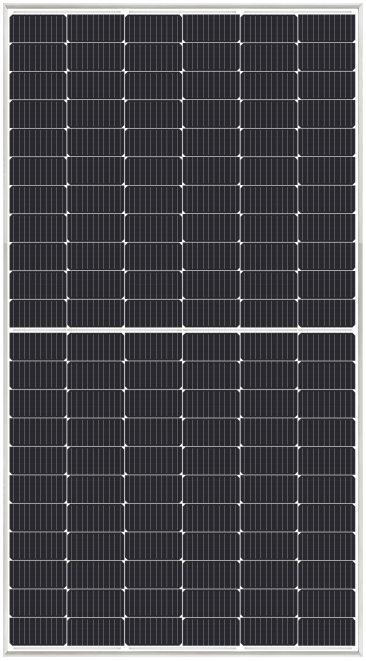
25years
Material & Workmanship warranty

30years
Linear power output warranty



Munich RE

VSUN505-132BMH VSUN500-132BMH
VSUN495-132BMH VSUN490-132BMH



- MBB technology with Circular Ribbon
- Higher output power
- Half-cell Technology
- Positive tolerance offer
- Lower risk of hot spot
- Up to 30% extra power generation yield from the back side
- IEC61215 & IEC61730 UL 61730 certificate
- Certified for salt/ammonia corrosion resistance
- Lower LCOE

VSUN, a BNEF Tier-1 PV module manufacturer invested by Fuji Solar, has been committed to providing greener, cleaner and more intelligent renewable energy solutions. VSUN is dedicated to bringing reliable, customized and high-efficient products into various markets and customers worldwide

Engineered in Japan
www.vsun-solar.com

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN505-132BMH	VSUN500-132BMH	VSUN495-132BMH	VSUN490-132BMH
Maximum Power - Pmax (W)	505	500	495	490
Open Circuit Voltage - Voc (V)	45.6	45.4	45.2	45
Short Circuit Current - Isc (A)	14	13.93	13.85	13.78
Maximum Power Voltage - Vmpp (V)	38.6	38.4	38.2	38
Maximum Power Current - Impp (A)	13.09	13.03	12.96	12.9
Module Efficiency	21.27%	21.06%	20.85%	20.64%

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 500 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
525	45.4	14.63	38.4	13.68	5%
550	45.4	15.32	38.4	14.33	10%
599	45.5	16.72	38.3	15.64	20%
624	45.5	17.41	38.3	16.29	25%

Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.27%/°C
Current Temperature Coefficient	+0.048%/°C
Power Temperature Coefficient	-0.32%/°C

Maximum Ratings

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	70%±10%

Material Characteristics

Dimensions	2094×1134×35mm (L×W×H) 82.44 x 44.65 x 1.38 in
Weight	26.3kg / 58lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back sheet	Transparent white mesh backsheet
Cells	12×11 pieces bifacial monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	cable length 1900 mm , Staubli MC4 connector

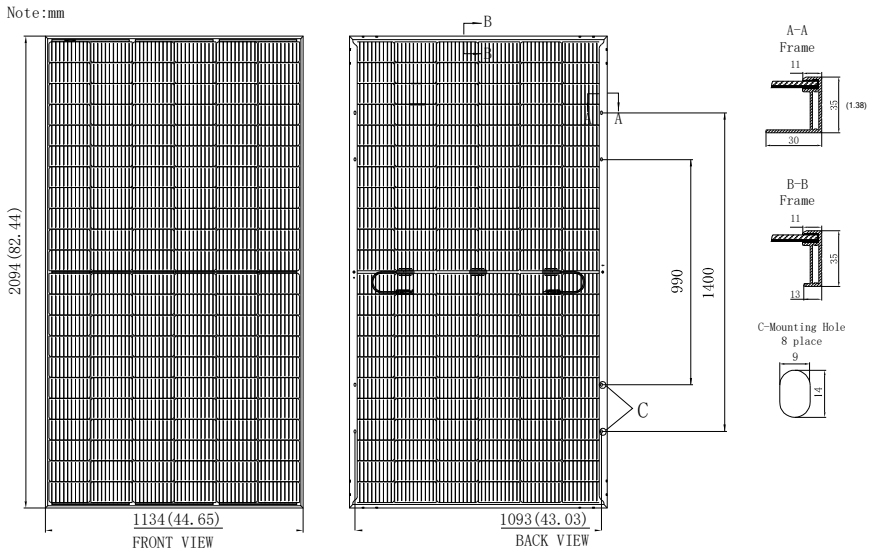
Packaging

Dimensions(L×W×H)	2120×1125×1253mm 83.5" x 44.3" x 49.3"
Container 20'	155
Container 40'	341
Container 40'HC	682

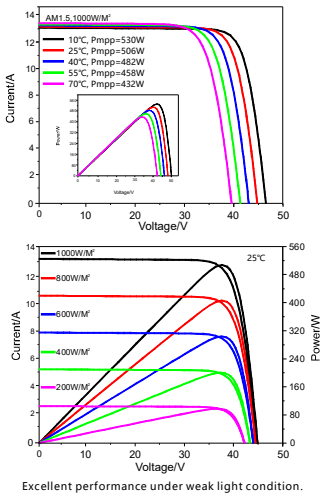
System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Maximum Surface Load	5,400 Pa
Application class	class A

Dimensions



IV-Curves



Excellent performance under weak light condition.