

VSUN460-120MH

460W

Highest power output

21.46%

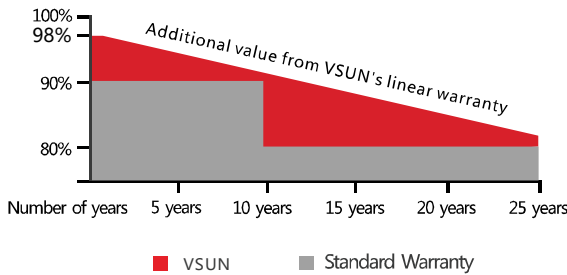
Module efficiency

12years

Material & Workmanship warranty

25years

Linear power output warranty



Munich RE 



PERC cell technology



Higher output power



Lower risk of micro-crack



Positive tolerance offer



Lower risk of hot spot



Better shading tolerance



Certified for salt/ammonia corrosion resistance



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



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	VSUN460-120MH	VSUN455-120MH	VSUN450-120MH	VSUN445-120MH
Maximum Power - Pmax (W)	460	455	450	445
Open Circuit Voltage - Voc (V)	42.5	42.3	42.1	41.9
Short Circuit Current - Isc (A)	13.71	13.63	13.56	13.48
Maximum Power Voltage - Vmpp (V)	35.4	35.2	35	34.8
Maximum Power Current - Impp (A)	13	12.93	12.86	12.79
Module Efficiency	21.46%	21.23%	20.99%	20.76%

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 at Normal Operating Cell Temperature(NOCT)

Module Type	VSUN460-120MH	VSUN455-120MH	VSUN450-120MH	VSUN445-120MH
Maximum Power - Pmax (W)	339.5	335.8	332.1	328.4
Open Circuit Voltage - Voc (V)	39.7	39.5	39.4	39.2
Short Circuit Current - Isc (A)	11.07	11.01	10.95	10.89
Maximum Power Voltage - Vmpp (V)	33	32.8	32.7	32.5
Maximum Power Current - Impp (A)	10.29	10.23	10.17	10.11

Normal Operating Cell Temperature((NOCT) : irradiance 800W/m²; wind speed 1 m/s; ambient temperature 20°C. Measuring Tolerance: ±3%.

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

Material Characteristics

Dimensions	1892×1133×35mm (L×W×H)
Weight	24.0kg
Frame	Silver anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×10 pieces monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized) , 1×4 mm ² , compatible with MC4

Packaging

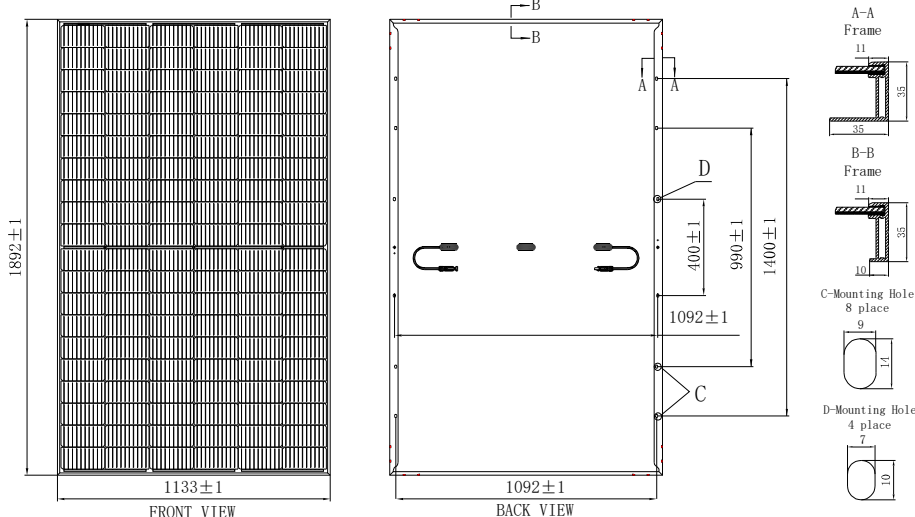
Dimensions(L×W×H)	1920×1125×1253mm
Container20'	155
Container40'	372
Container40'HC	744

System Design

Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m-s-1
Maximum Surface Load	5,400 Pa
Application class	class A

Dimensions

Note:mm



IV-Curves

