

# VSUN440-156MH

**440W**

Highest power output

**20.14%**

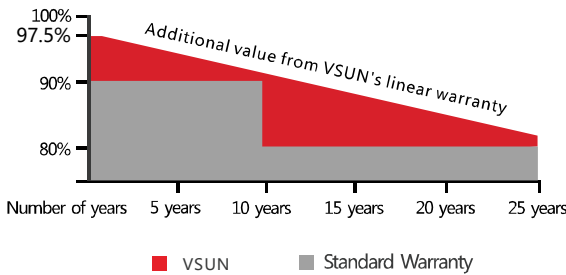
Module efficiency

**12years**

Material & Workmanship warranty

**25years**

Linear power output warranty



■ VSUN

■ Standard Warranty

**Munich RE** 



PERC cell technology



Higher output power



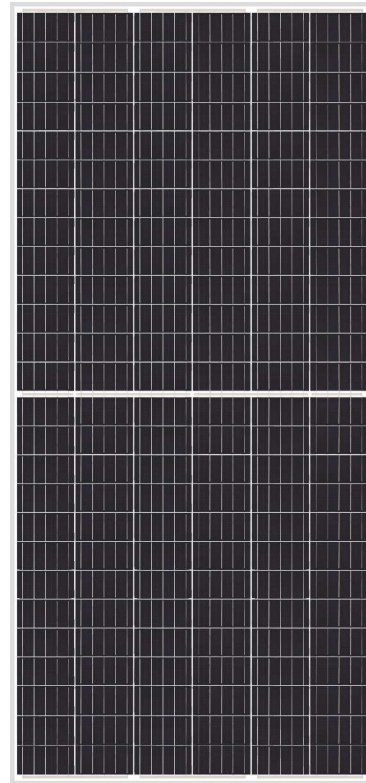
Lower risk of micro-crack



Positive tolerance offer

VSUN440-156MH  
VSUN430-156MH

VSUN435-156MH  
VSUN425-156MH



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



## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN440-156MH	VSUN435-156MH	VSUN430-156MH	VSUN425-156MH
Maximum Power - Pmax (W)	440	435	430	425
Open Circuit Voltage - Voc (V)	54	53.8	53.6	53.4
Short Circuit Current - Isc (A)	10.4	10.31	10.22	10.13
Maximum Power Voltage - Vmpp (V)	45.1	44.9	44.7	44.5
Maximum Power Current - Impp (A)	9.76	9.69	9.62	9.56
Module Efficiency	20.14%	19.91%	19.69%	19.46%

Standard Test Conditions (STC): irradiance 1,000 W/m<sup>2</sup>; 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	VSUN440-156MH	VSUN435-156MH	VSUN430-156MH	VSUN425-156MH
Maximum Power - Pmax (W)	324.9	321	317.2	313.9
Open Circuit Voltage - Voc (V)	49.9	49.7	49.5	49.3
Short Circuit Current - Isc (A)	8.4	8.33	8.26	8.19
Maximum Power Voltage - Vmpp (V)	41.2	41	40.9	40.8
Maximum Power Current - Impp (A)	7.89	7.82	7.75	7.7

Normal Operating Cell Temperature( NOCT) : irradiance 800W/m<sup>2</sup>; wind speed 1 m/s ; ambient temperature 20/°C. Measuring Tolerance: ±3%.

## Temperature Characteristics

NOCT	45°C (±2°C)
Voltage Temperature Coefficient	-0.29%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.39%/°C

## Maximum Ratings

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	20

## Material Characteristics

Dimensions	2180×1002×35mm (L×W×H)
Weight	24.0kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	12×13 pieces monocrystalline solar cells series strings
Junction Box	IP≥67, 3 diodes
Cable&Connector	Potrait: 300 mm (cable length can be customized) , 1×4 mm <sup>2</sup> , compatible with MC4

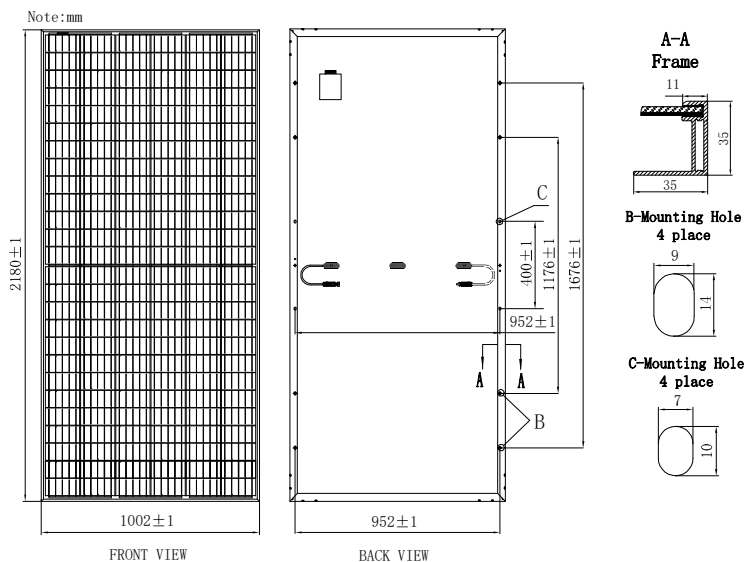
## Packaging

Dimensions(L×W×H)	2220×1105×1132mm
Container20'	300
Container40'	600
Container40'HC	650

## System Design

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

## Dimensions



## IV-Curves

