

## VSUN405-108BMH-DG

VSUN405-108BMH-DG VSUN400-108BMH-DG  
VSUN395-108BMH-DG VSUN390-108BMH-DG



### 405W

Highest power output

### 12 years

Material & Workmanship warranty



### 20.74%

Module efficiency

### 30 years

Linear power output warranty

## KEY FEATURES

-  MBB technology with Circular Ribbon
-  Higher output power
-  Half-cell Technology
-  Positive tolerance offer
-  Micro Gap
-  Up to 30% extra power generation yield from the back side
-  Certified for salt/ammonia corrosion resistance
-  Load certificates: wind to 2400Pa and snow to 5400Pa
-  Lower LCOE

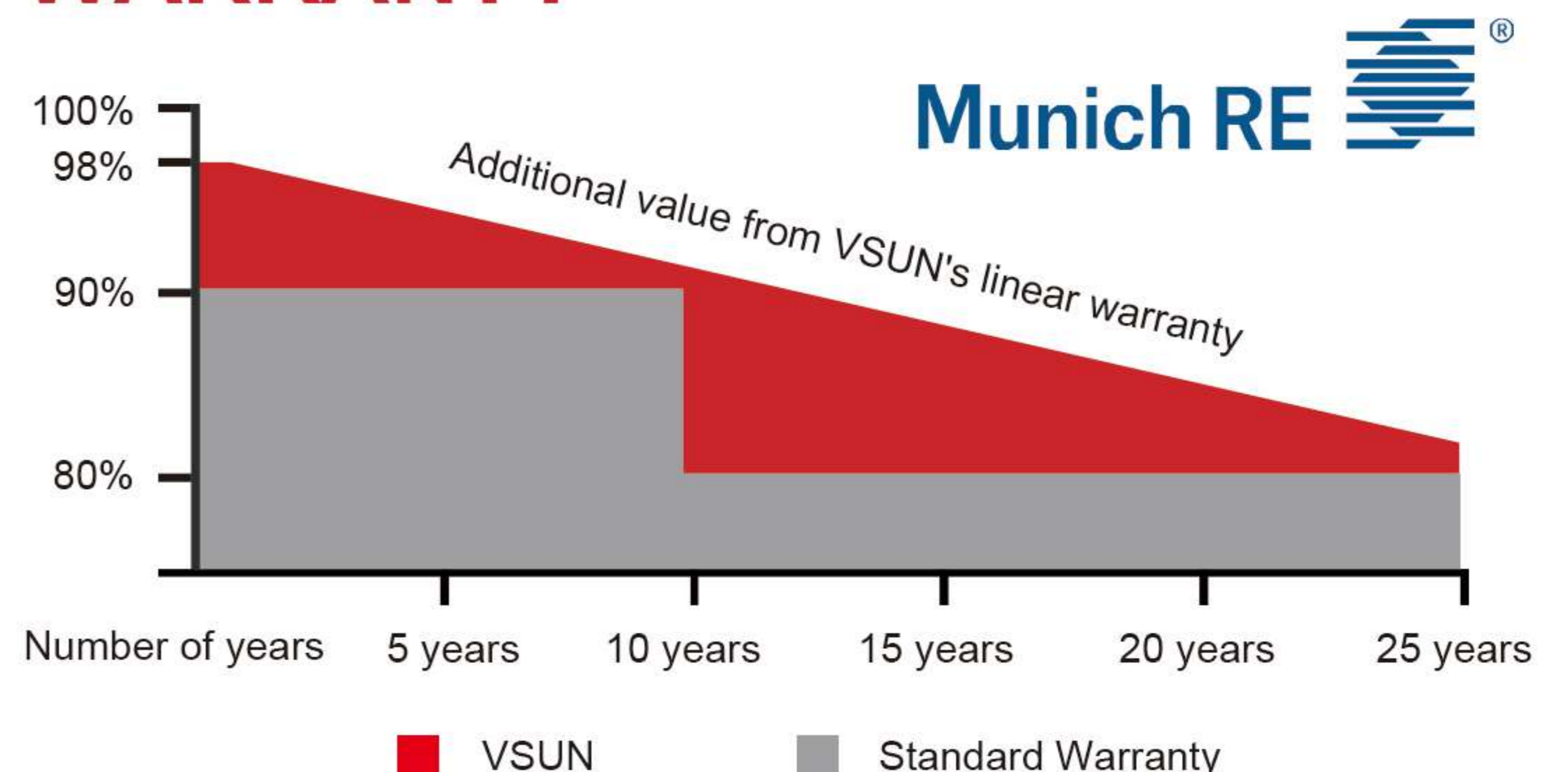
## ABOUT US

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.

## PRODUCT CERTIFICATION



## WARRANTY





## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN405-108BMH-DG	VSUN400-108BMH-DG	VSUN395-108BMH-DG	VSUN390-108BMH-DG
Maximum Power - Pmax (W)	405	400	395	390
Open Circuit Voltage - Voc (V)	37.36	37.2	37.03	36.84
Short Circuit Current - Isc (A)	13.78	13.68	13.59	13.5
Maximum Power Voltage - Vmpp (V)	31.36	31.17	31	30.82
Maximum Power Current - Impp (A)	12.92	12.84	12.75	12.66
Module Efficiency	20.74%	20.48%	20.23%	19.97%

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 with different rear side power gain(reference to 400 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
420	37.1	14.36	31.17	13.48	5%
440	37.1	15.05	31.17	14.12	10%
479	37.2	16.42	31.12	15.41	20%
499	37.2	17.10	31.12	16.05	25%

## Material Characteristics

Dimensions	1722×1134×30mm (L×W×H)
Weight	24.7kg
Frame	Black anodized aluminum profile
Front Glass	AR-Coating Semi-toughened glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Semi-toughened transparent glass, 2.0mm
Cells	12×9 pieces monocrystalline solar cells series strings
Junction Box	IP68, 3 diodes
Cable&Connector	Potrait: 500 mm (cable length can be customized) , 1×4 mm <sup>2</sup> , compatible with MC4

## 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%

## Packaging

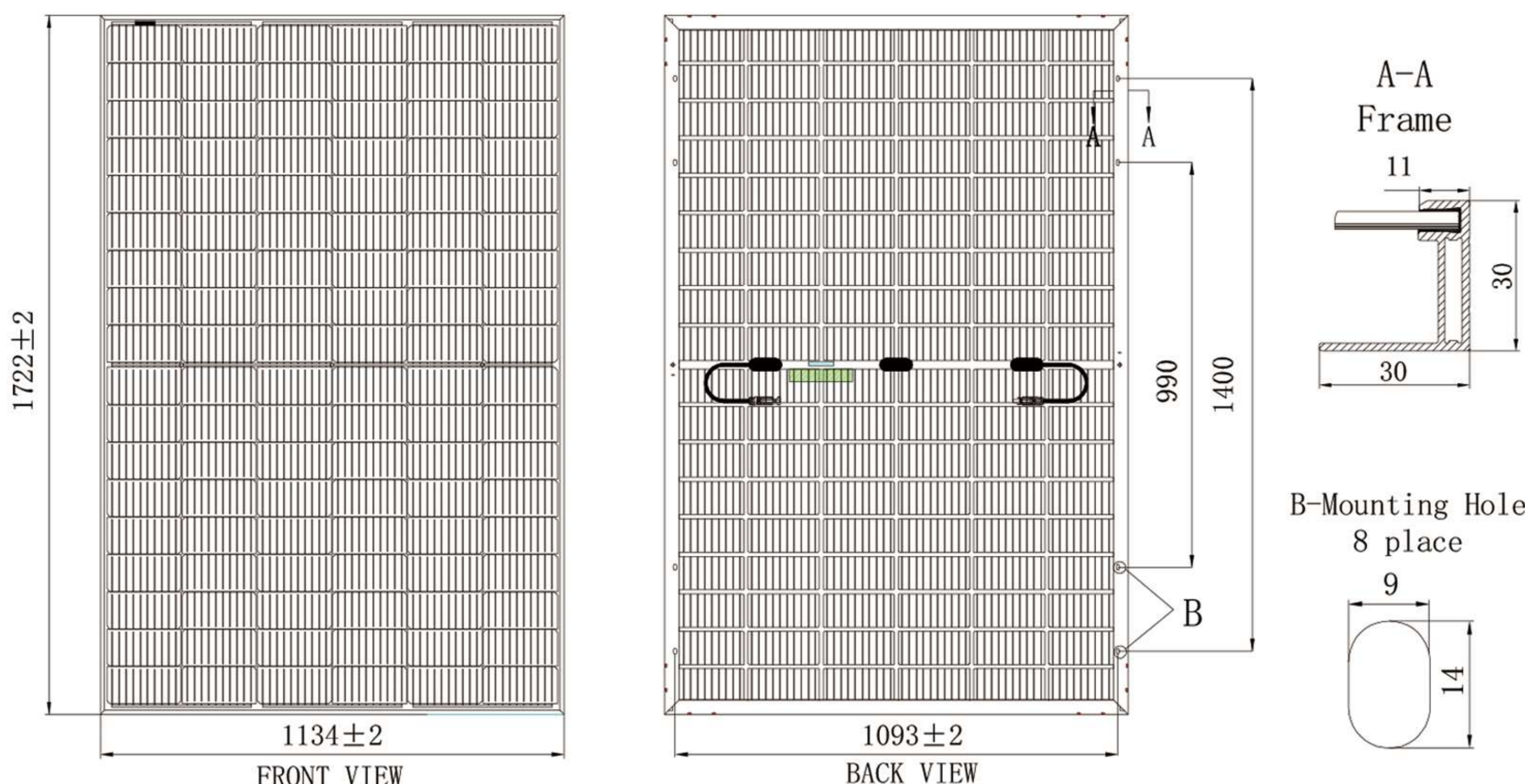
Dimensions(L×W×H)	1760×1125×1253mm
Container 20'	210
Container 40'	455
Container 40'HC	910

## System Design

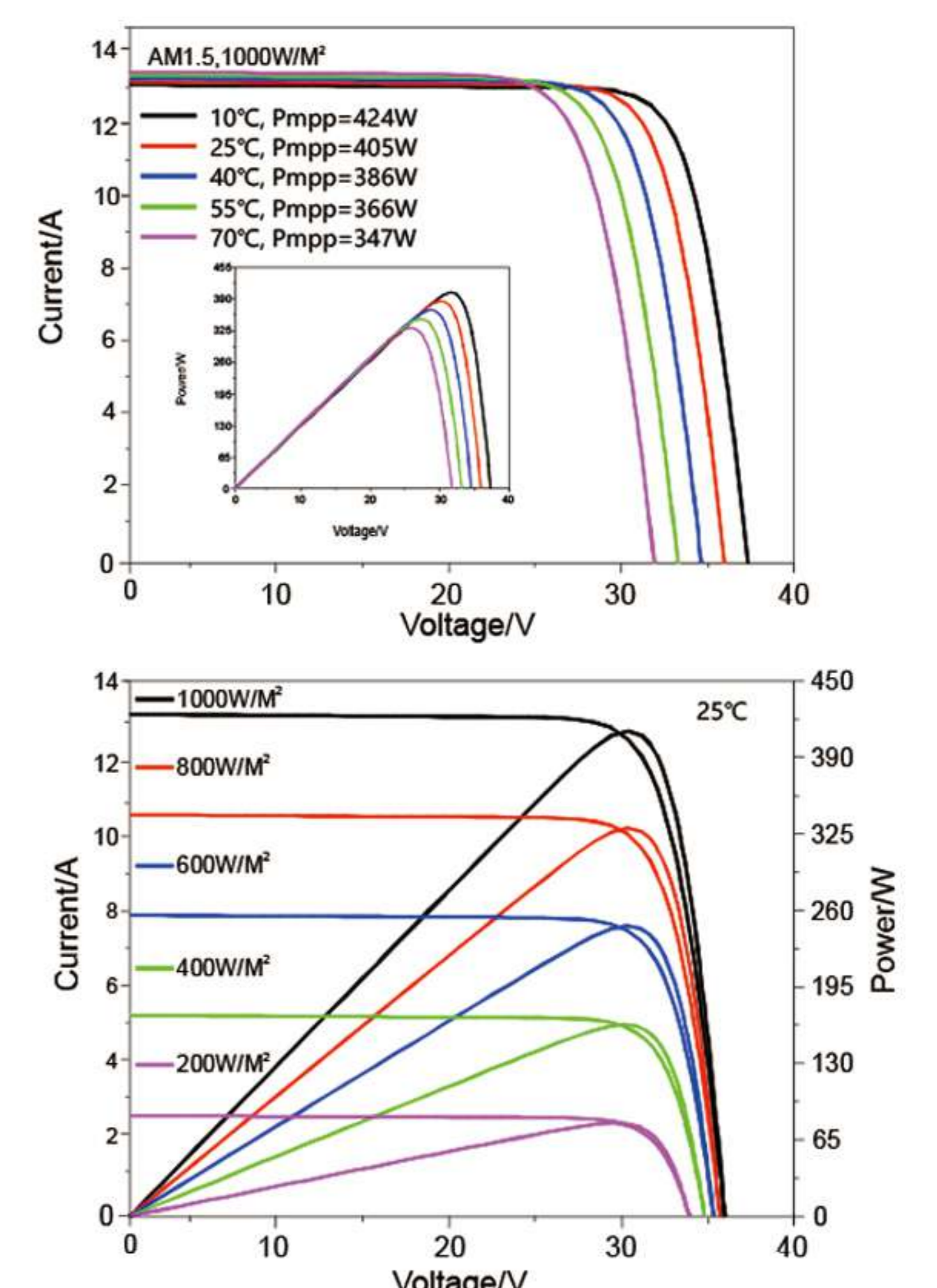
Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s
Maximum Surface Load	5,400 Pa
Application class	class A

## Dimensions

Note:mm



## IV-Curves



Excellent performance under weak light condition.