

## VSUN430N-108BMH-DG

VSUN425N-108BMH-DG VSUN420N-108BMH-DG  
VSUN415N-108BMH-DG

**430W**

Highest power output

**22.02%**

Module efficiency










**1.0%**

First-year degradation warranty

**0.4%**

Annual degradation over 30 years

### KEY FEATURES

-  **N-type** TOPCon Technology
-  Higher output power
-  MBB technology with Circular Ribbon
-  Positive tolerance offer
-  Lower LID
-  Better shading tolerance
-  Better temperature coefficient
-  Excellent PID Resistance
-  Lower LCOE

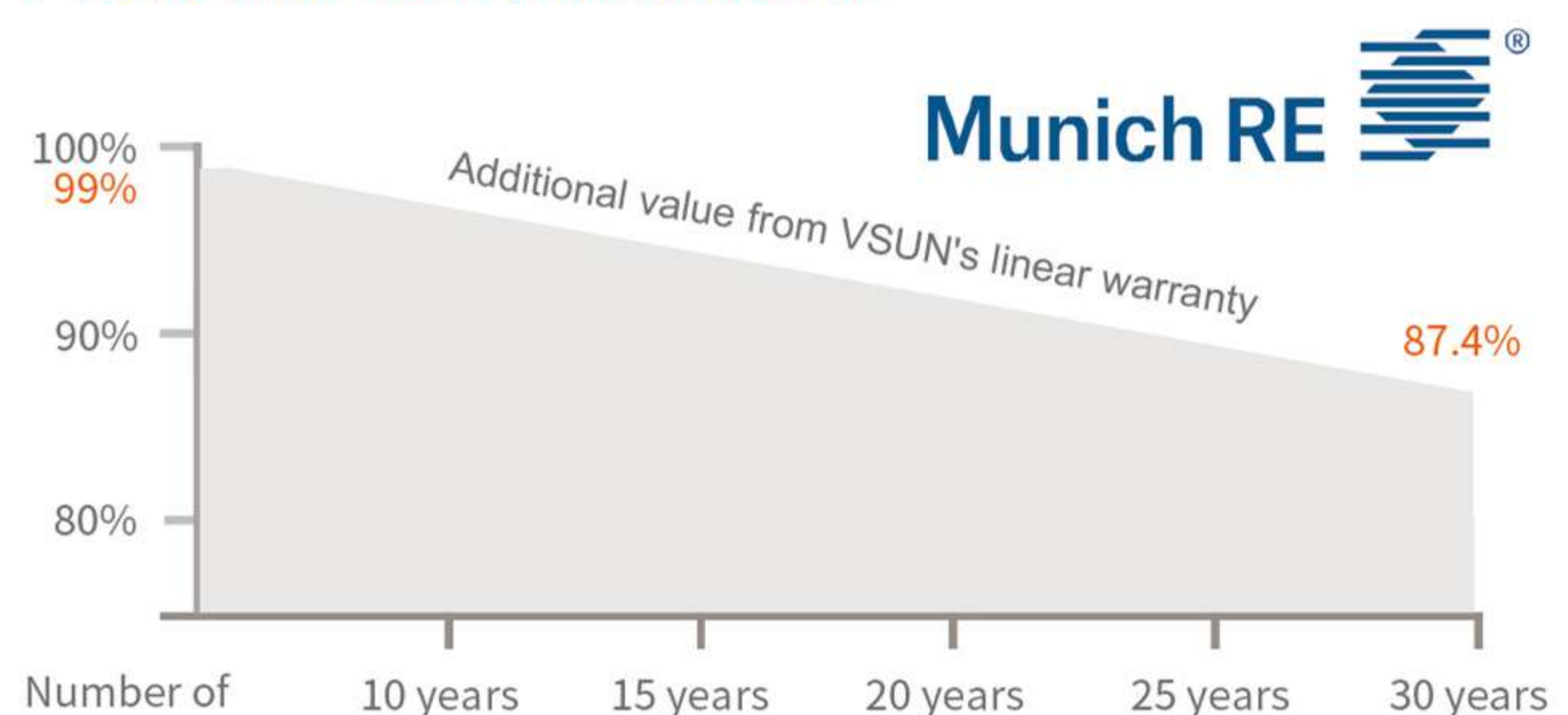
### ABOUT VSUN

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



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## Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN430N-108BMH-DG	VSUN425N-108BMH-DG	VSUN420N-108BMH-DG	VSUN415N-108BMH-DG
Maximum Power - Pmax (W)	430	425	420	415
Open Circuit Voltage - Voc (V)	38.5	38.4	38.11	37.92
Short Circuit Current - Isc (A)	14.24	14.16	14.07	13.99
Maximum Power Voltage - Vmpp (V)	31.89	31.72	31.52	31.33
Maximum Power Current - Impp (A)	13.5	13.4	13.32	13.24
Module Efficiency	22.02%	21.76%	21.51%	21.25%

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 425 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
446	38.40	14.87	31.72	14.07	5%
468	38.40	15.58	31.72	14.74	10%
509	38.48	16.99	31.67	16.08	20%
530	38.48	17.70	31.67	16.75	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	Black glazed & Semi-toughened glass, 2.0mm
Cells	12×9 pieces bifacial 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	-0.26%/°C
Current Temperature Coefficient	+0.046%/°C
Power Temperature Coefficient	-0.30%/°C

## Maximum Ratings

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±5%

## Packaging

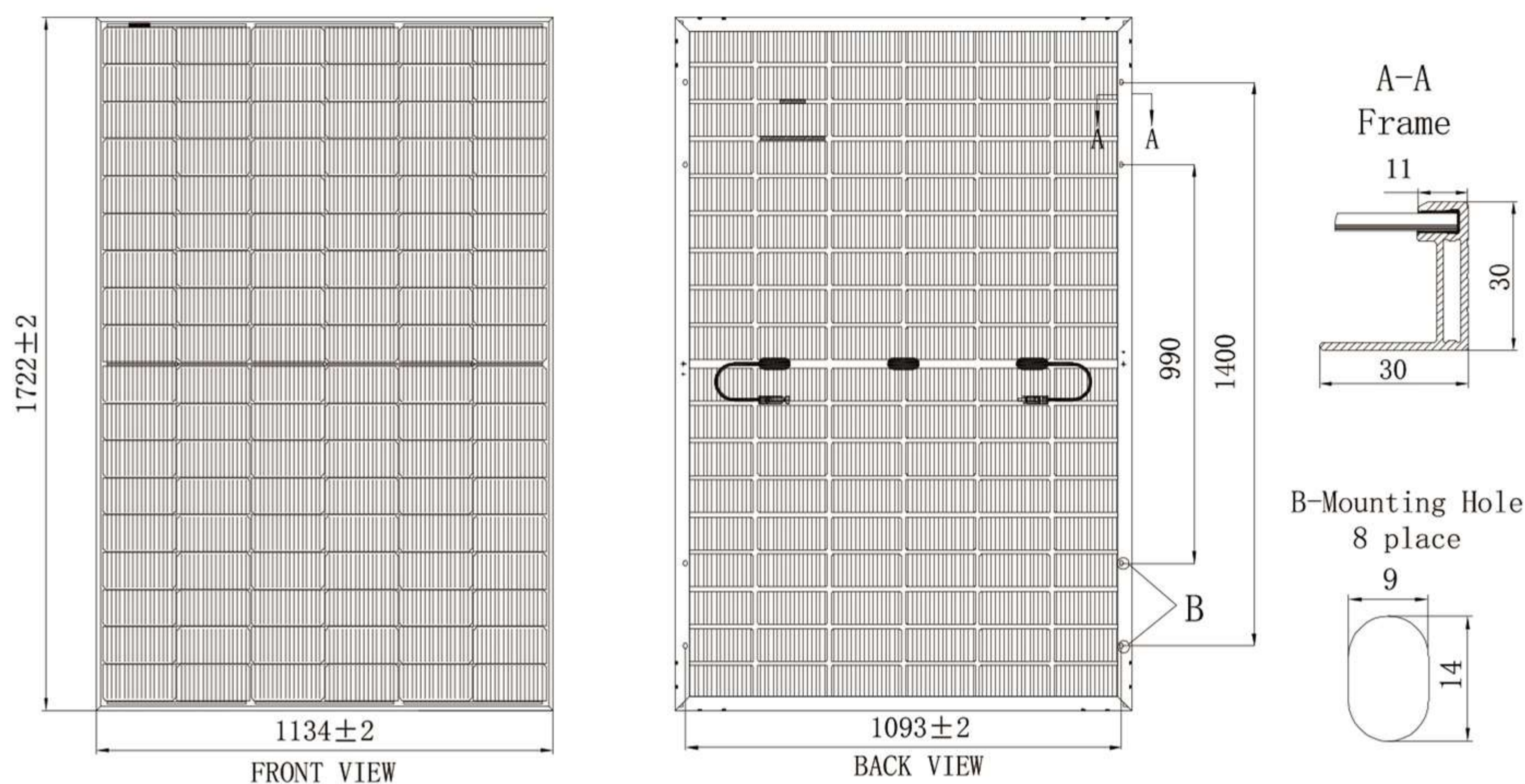
Dimensions(L×W×H)	1760×1125×1253mm
Container 20'	210
Container 40'	455
Container 40'HC	910 or 735 for US

## System Design

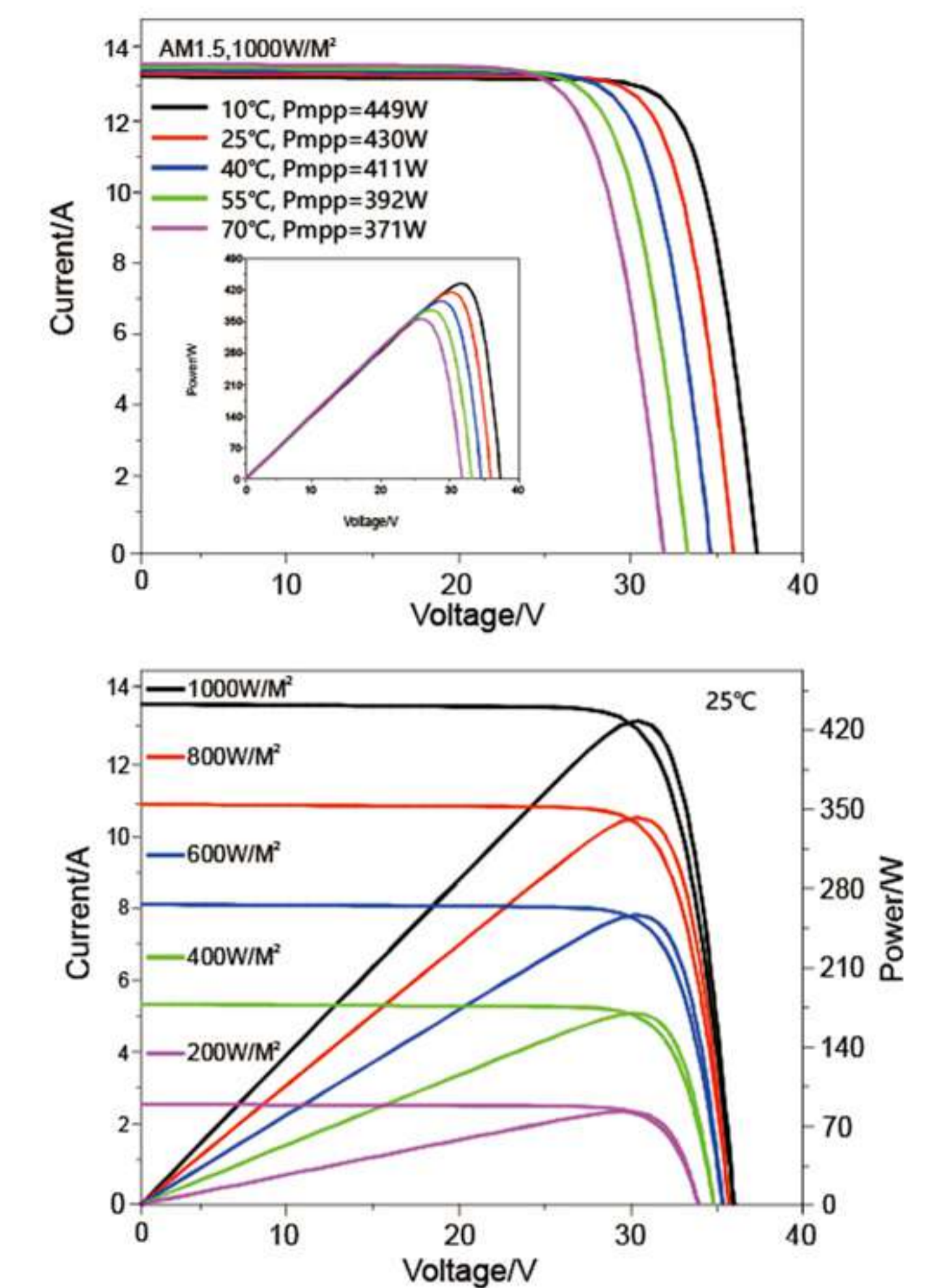
Temperature Range	-40 °C to + 85 °C
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m·s <sup>-1</sup>
Maximum Surface Load	5,400 Pa
Application class	class A

## Dimensions

Note: mm



## IV-Curves



Excellent performance under weak light condition.