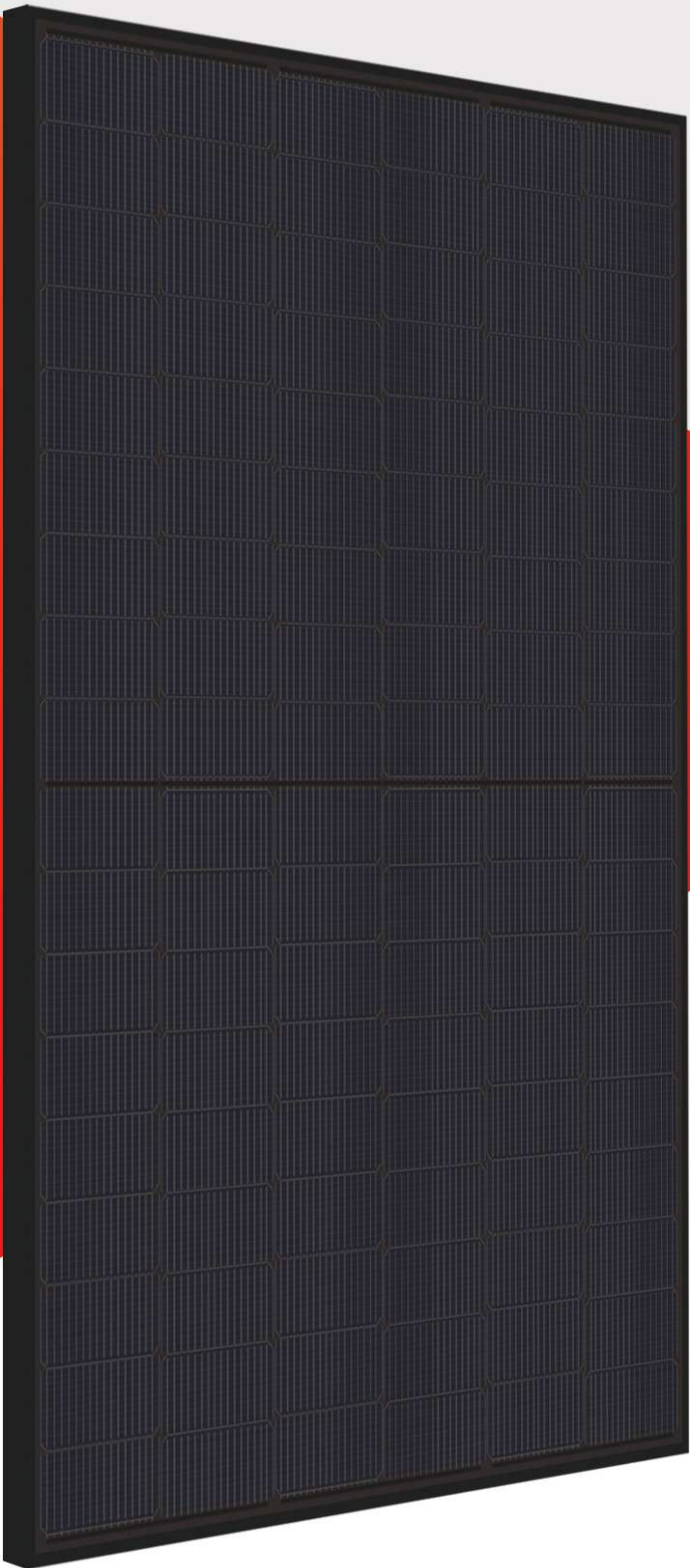




VSUN
Innovative & Smart

12
YEAR
QUALITY ASSURANCE

30
YEAR
POWER OUTPUT GUARANTEE

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

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".

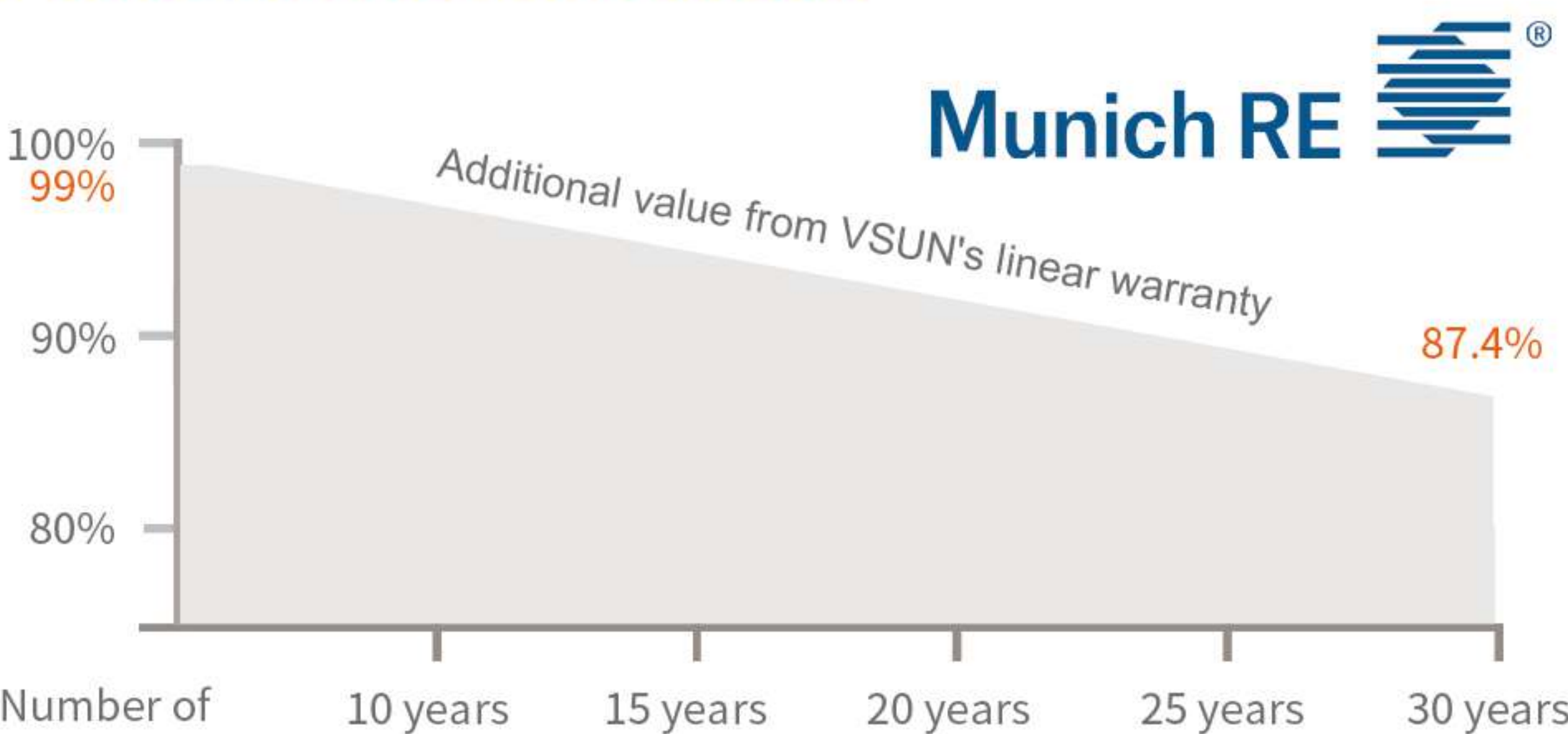
KEY FEATURES

- 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

PRODUCT CERTIFICATION



PRODUCT CERTIFICATION



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 - Imp (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 ² ; 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)	Imp (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

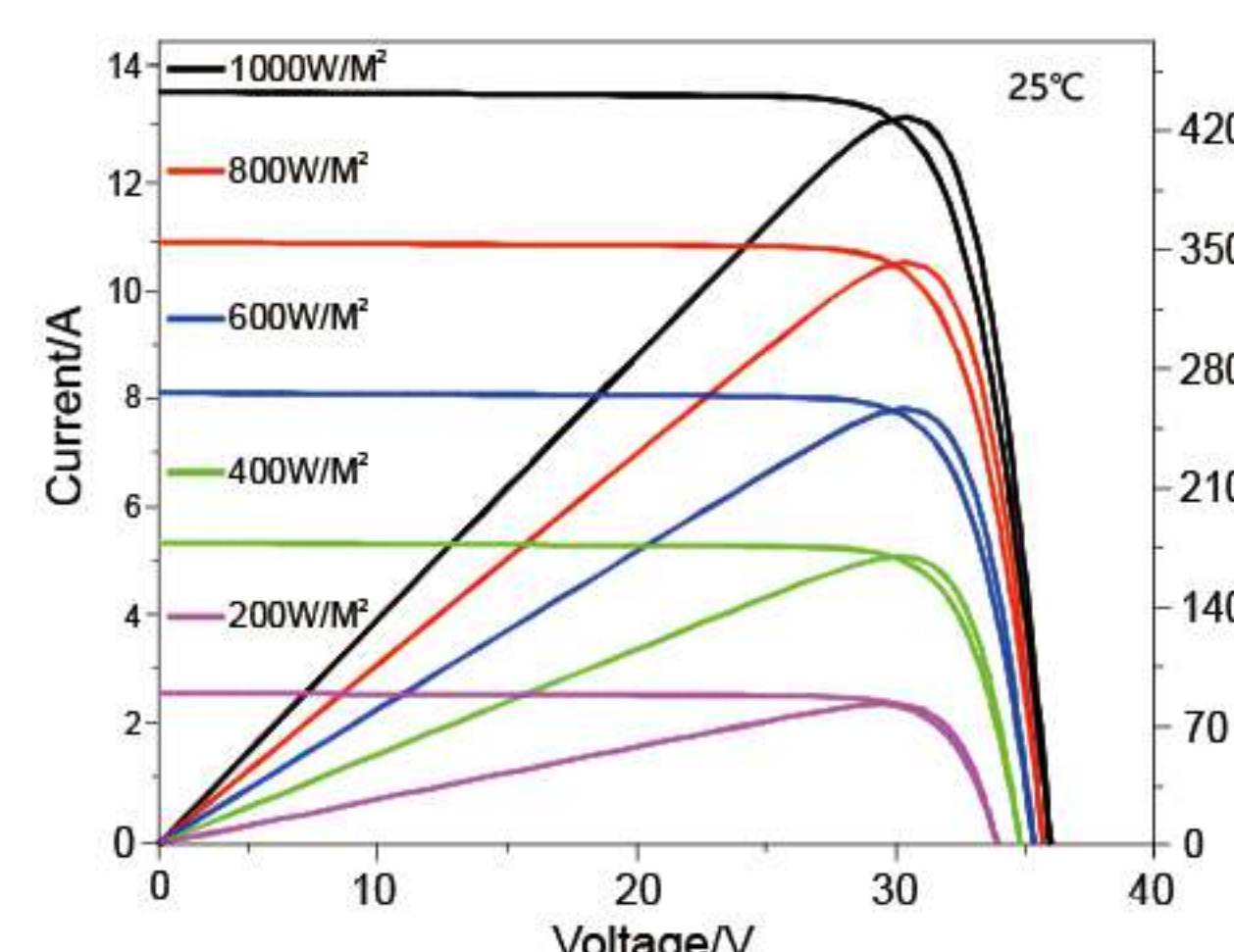
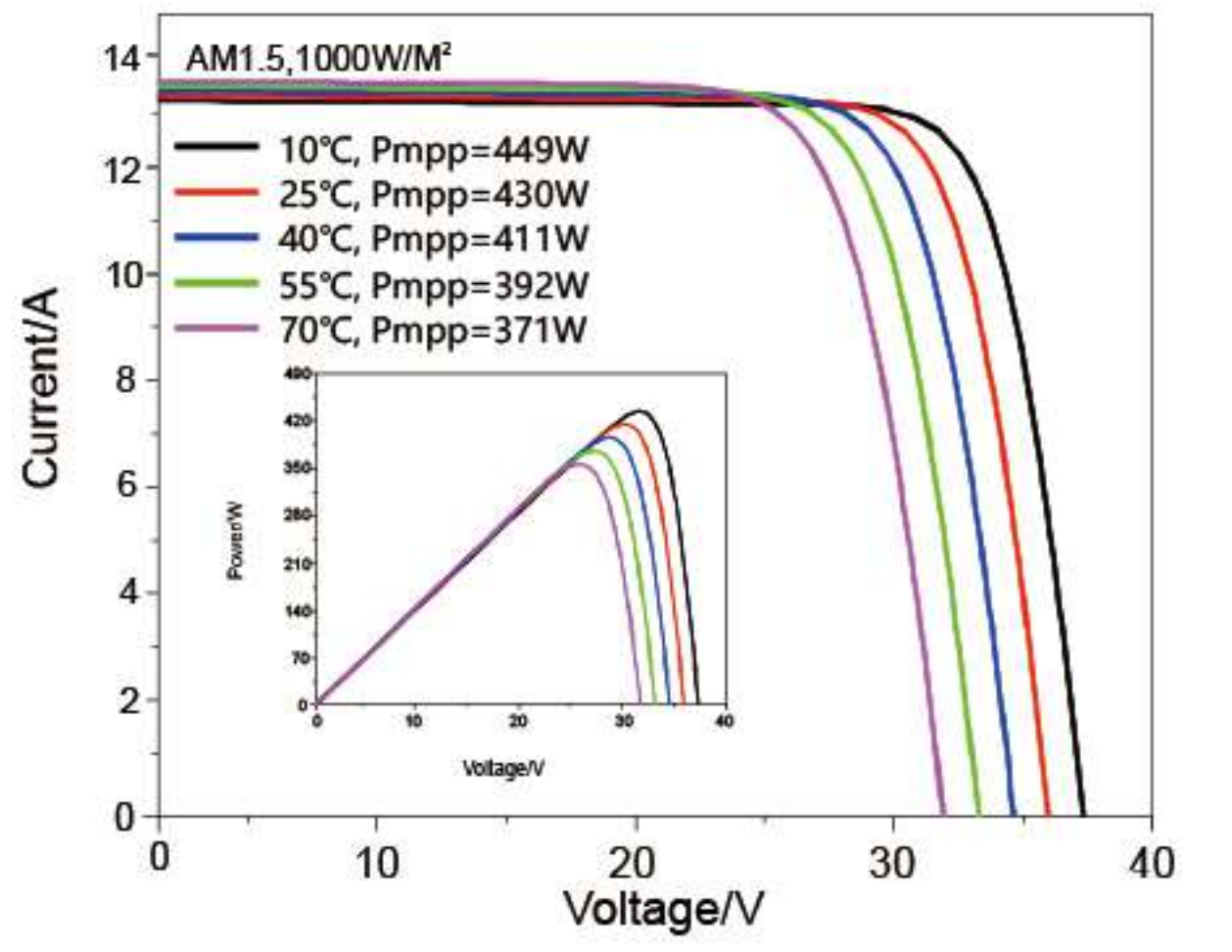
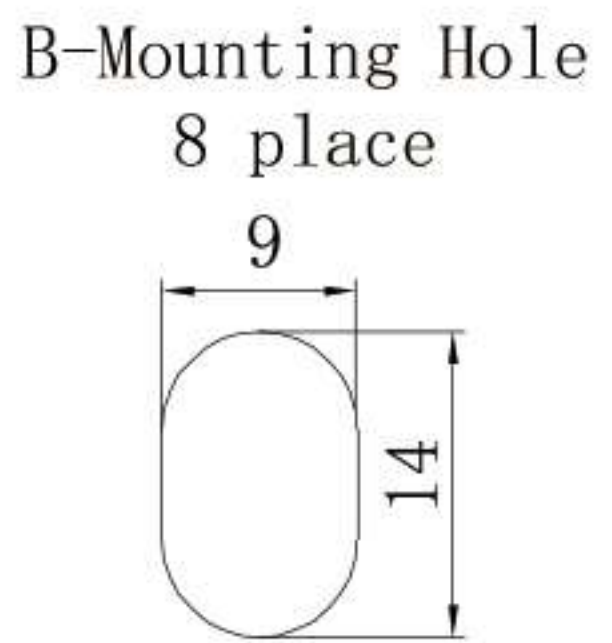
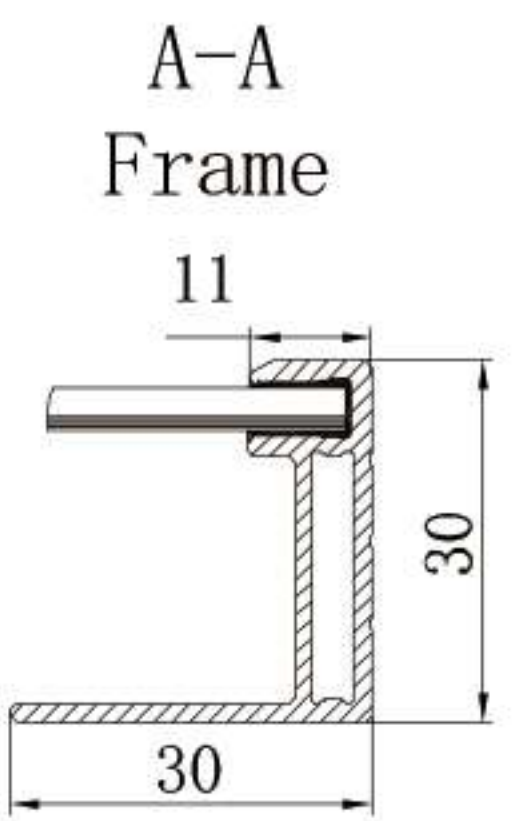
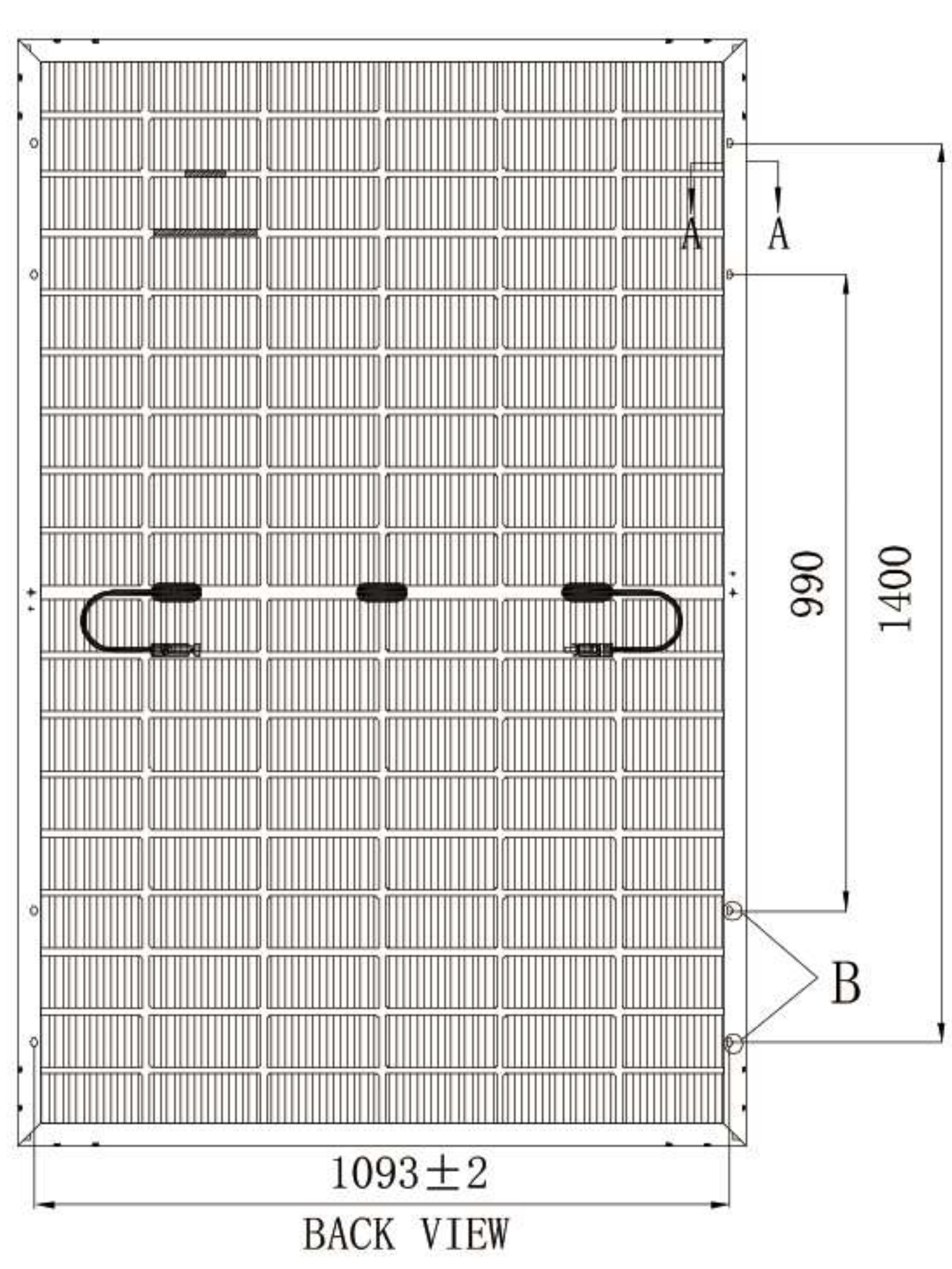
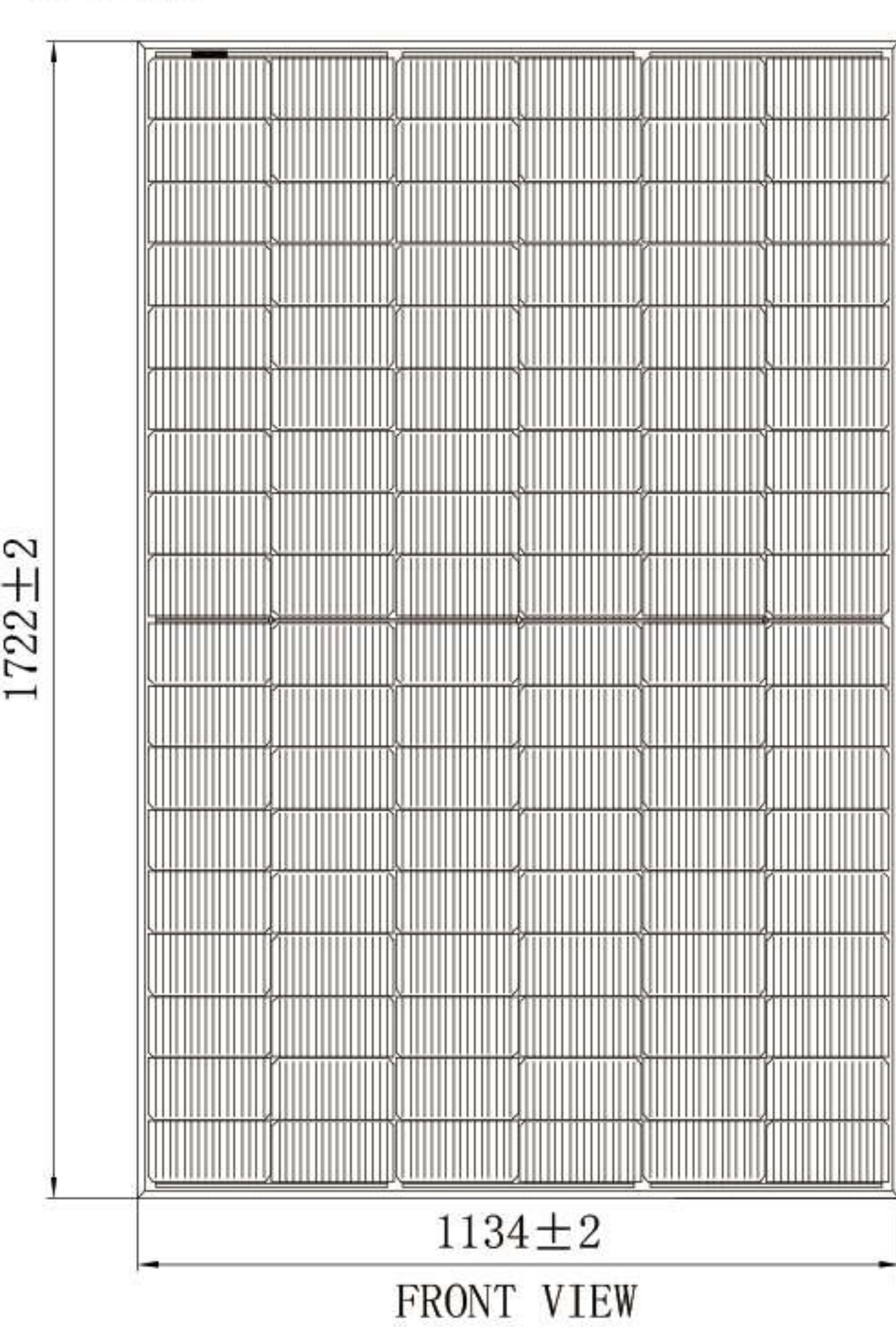
Dimensions	1722×1134×30mm (L×W×H)
Weight	24.7kg
Frame	Black anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate) or POE
Back Glass	Black glazed & Semi-toughened glass, 2.0mm
Cells	12×9 pieces bifacial monocrystalline solar cells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

Packaging

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

Dimensions

Note:mm



Excellent performance under weak light condition.

IV-Curves

System Design

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

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%