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Innovative & Smart

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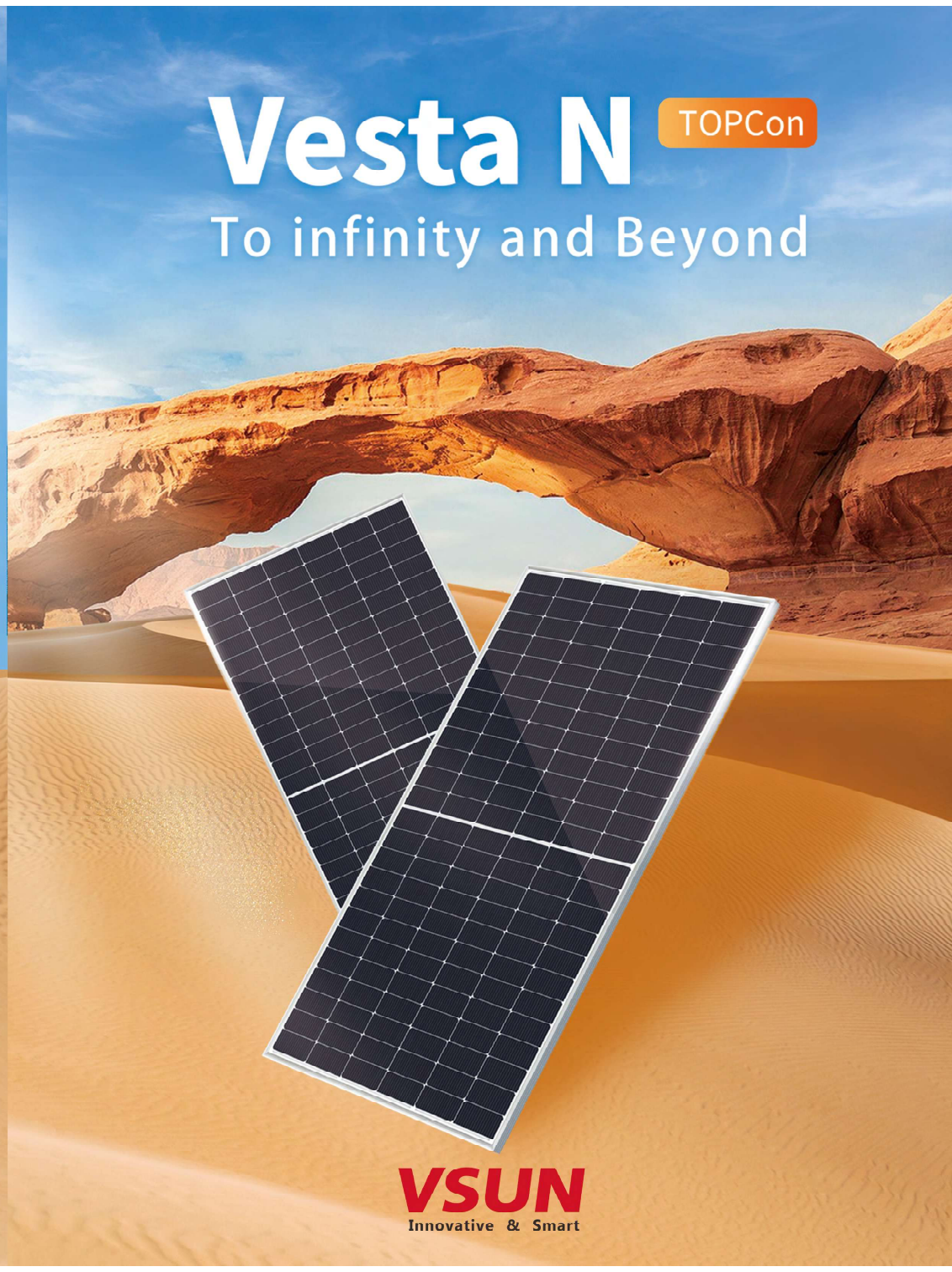
Vesta N

TOPCon

To infinity and Beyond



VSUN
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To Infinity and Beyond

Vesta N

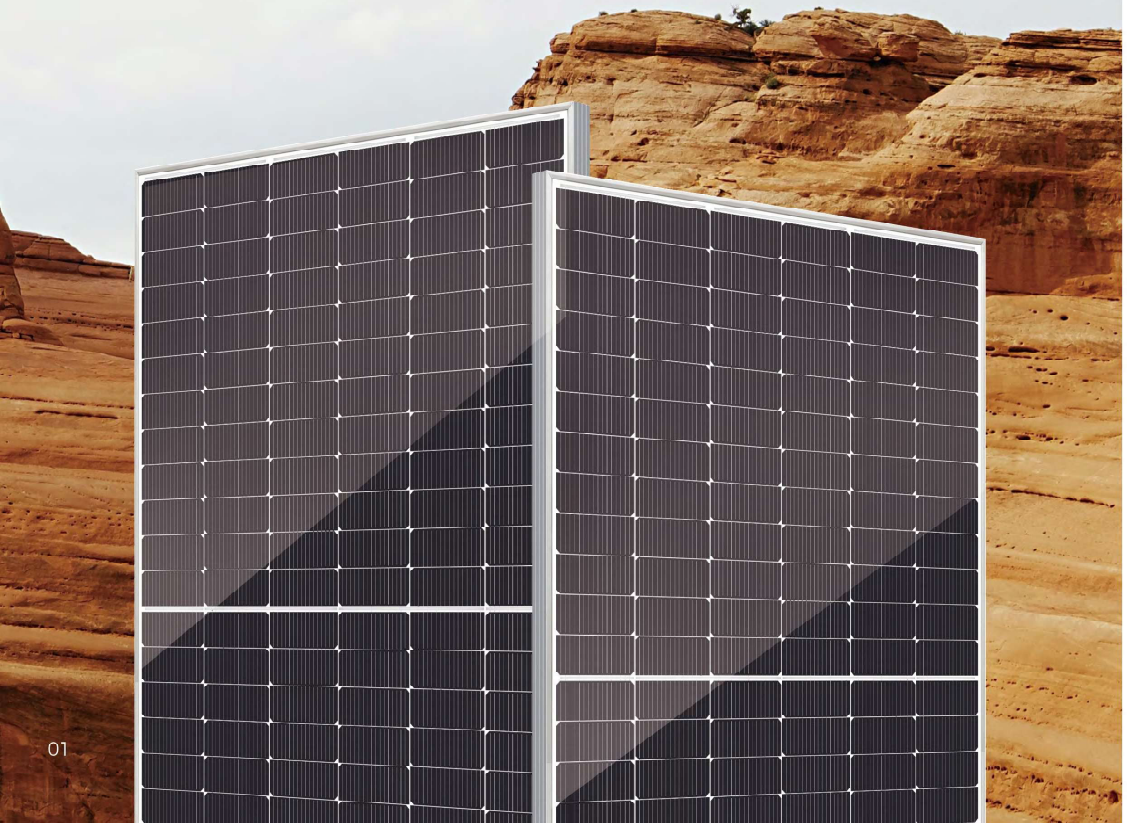
Vesta N modules are made for challenges.

Supported by innovative TOPCon technology, VSUN Vesta N modules overcome extreme conditions and provide you higher compatibility and maximum efficiency with lower LCOE.

Vesta N TOPCon offers the best combination of efficiency and reliability. The conversion efficiency is up to 23.34% and power reaches 725W in mass production.

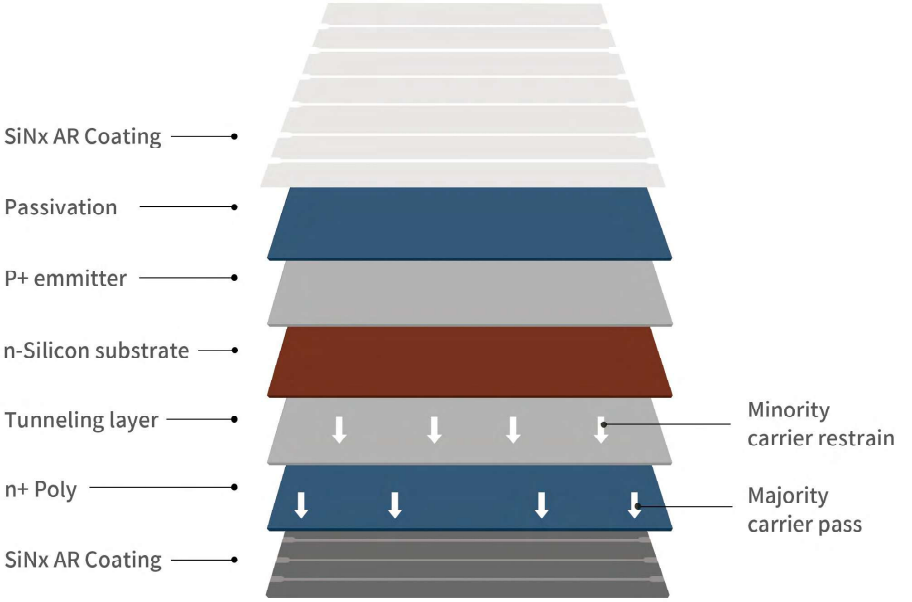
23.34%
Module Efficiency

725W
Highest power output



最も信頼出来る再エネパートナー

TOPCon Technology Innovation



Low resistance loss & high Voc

TOPCon (known as passivated contact) solar cell, is touted as the next generation of solar cell technology after PERC. The incremental TOPCon efficiency advancements harvest more energy.

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12 YEAR QUALITY ASSURANCE

30 YEAR POWER OUTPUT GUARANTEE

VSUN725N-132BMH-DG

VSUN725N-132BMH-DG VSUN720N-132BMH-DG
VSUN715N-132BMH-DG VSUN710N-132BMH-DG
VSUN705N-132BMH-DG VSUN700N-132BMH-DG

725W
Highest power output

23.34%
Module efficiency

1.0%
First-year degradation warranty

0.40%
Annual degradation over 30 years

KEY FEATURES

- TOPcon — TOPcon technology
- Higher output power
- MBB technology with Circular Ribbon
- 0~3% — Positive tolerance offer
- Bifacial cells, converting more sunlight into electricity
- Better shading tolerance
- Better temperature coefficient
- Excellent PID Resistance
- Lower LCOE
- UL 61730 & CSA 61730
  IEC 61215 & IEC 61730

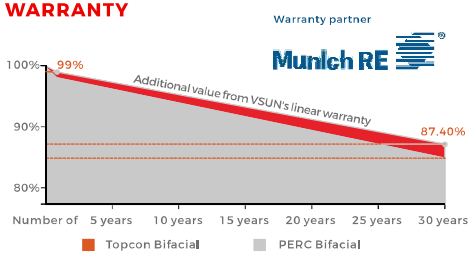
ABOUT VSUN

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

TUV · SAA · CE · PV CYCLE · ISO · IEC

WARRANTY



Update Time: 2025.04.14
Version: 2.0

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN725N-132BMH-DG	VSUN720N-132BMH-DG	VSUN715N-132BMH-DG	VSUN710N-132BMH-DG	VSUN705N-132BMH-DG	VSUN700N-132BMH-DG
Maximum Power - Pmax (W)	725	720	715	710	705	700
Open Circuit Voltage - Voc (V)	49.5	49.3	49.1	48.9	48.7	48.5
Short Circuit Current - Isc (A)	18.56	18.52	18.47	18.42	18.37	18.32
Maximum Power Voltage - Vmpp (V)	41.5	41.3	41.1	40.9	40.7	40.5
Maximum Power Current - Impp (A)	17.47	17.44	17.4	17.36	17.33	17.29
Module Efficiency	23.34%	23.18%	23.02%	22.86%	22.70%	22.53%

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 with different rear side power gain(reference to 725 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
761	49.50	19.49	41.50	18.34	5%
798	49.50	20.42	41.50	19.22	10%
870	49.54	22.27	41.46	20.96	20%
906	49.54	23.20	41.46	21.84	25%

Material Characteristics

Dimensions	2384×1303×35mm (L×W×H) 93.86*51.30*1.38 inches (L×W×H)
Weight	38.5kg / 84.88lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	12×11 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: +300mm/-400mm (cable length can be customized) , 1×4mm2 or 12AWG

System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±10%
Fire Rating	Class C for IEC and TYPE 29 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

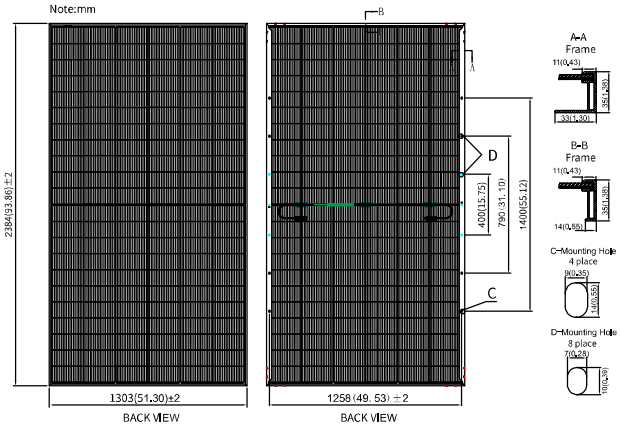
Packaging

Dimensions(L×W×H)	1325×1125×2510mm / 52.17*44.29*98.82inches
Quantity per pallet	31 pcs
Container 20'	/
Container 40'	/
Container 40'HC	558 or 496 for US

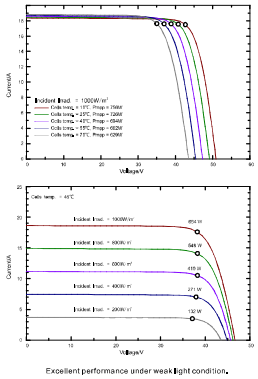
Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.24%/°C
Current Temperature Coefficient	+0.040%/°C
Power Temperature Coefficient	-0.29%/°C

Dimensions



IV-Curves



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VSUN
Innovative & Smart

12 YEAR
QUALITY ASSURANCE

30 YEAR
POWER OUTPUT GUARANTEE

VSUN600N-144BMH-DG

VSUN600N-144BMH-DG VSUN595N-144BMH-DG
VSUN590N-144BMH-DG VSUN585N-144BMH-DG
VSUN580N-144BMH-DG VSUN575N-144BMH-DG

600W
Highest power output

23.23%
Module efficiency

1.0%
First-year degradation warranty

0.40%
Annual degradation over 30 years

ABOUT VSUN

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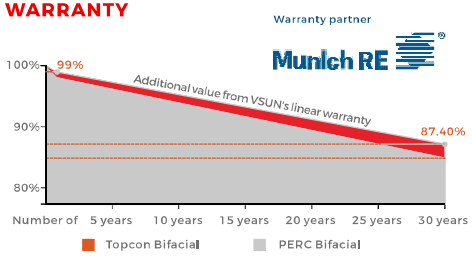
KEY FEATURES

- TOPcon — TOPcon technology
- Higher output power
- MBB technology with Circular Ribbon
- Positive tolerance offer
- Bifacial cells, converting more sunlight into electricity
- Better shading tolerance
- Better temperature coefficient
- Excellent PID Resistance
- Lower LCOE
- UL 61730 & CSA 61730 IEC 61215 & IEC 61730

PRODUCT CERTIFICATION

WARRANTY



Update Time: 2025.05.09
Version: 3.0

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN600N-144BMH-DG	VSUN595N-144BMH-DG	VSUN590N-144BMH-DG	VSUN585N-144BMH-DG	VSUN580N-144BMH-DG	VSUN575N-144BMH-DG
Maximum Power - Pmax (W)	600	595	590	585	580	575
Open Circuit Voltage - Voc (V)	52.9	52.69	52.48	52.25	52.02	51.81
Short Circuit Current - Isc (A)	14.03	13.98	13.93	13.88	13.83	13.77
Maximum Power Voltage - Vmpp (V)	44.92	44.71	44.5	44.29	44.08	43.86
Maximum Power Current - Impp (A)	13.36	13.31	13.26	13.21	13.16	13.11
Module Efficiency	23.23%	23.03%	22.84%	22.65%	22.45%	22.26%

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 with different rear side power gain(reference to 600 front)

Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
630	52.90	14.73	44.92	14.03	5%
649	52.90	15.43	44.92	14.70	10%
708	52.98	16.84	44.84	16.03	20%
738	52.98	17.54	44.84	16.70	25%

Material Characteristics

Dimensions	2278×1134×30mm (L×W×H) 89.69*44.65*1.18 inches (L×W×H)
Weight	31.8kg / 70.11lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-coating Semi-toughened glass, 2.0mm
Back Glass	Glazed & Semi-toughened glass, 2.0mm
Cells	12×12 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: +300mm/-400mm (cable length can be customized) , 1×4mm2 or 12AWG

System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±10%
Fire Rating	Class C for IEC and TYPE 29 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

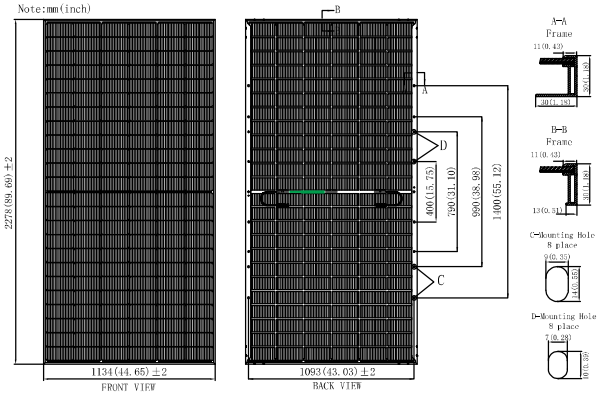
Packaging

Dimensions(L×W×H)	2310×1125×1253mm / 90.94*44.29*49.33inches
Quantity per pallet	36 pcs
Container 20'	180
Container 40'	360
Container 40'HC	720 or 576 for US

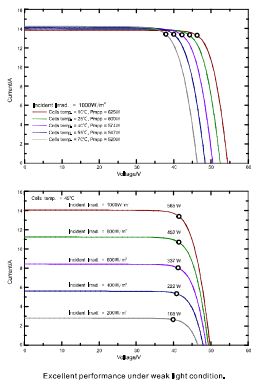
Temperature Characteristics

NOCT	45°C(±2°C)
Voltage Temperature Coefficient	-0.24%/°C
Current Temperature Coefficient	+0.05%/°C
Power Temperature Coefficient	-0.29%/°C

Dimensions



IV-Curves



Excellent performance under weak light condition.

Update Time: 2025.05.09
Version: 3.0

VSUN
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12 YEAR
QUALITY ASSURANCE

30 YEAR
POWER OUTPUT GUARANTEE

VSUN600N-144BMH

VSUN600N-144BMH
VSUN590N-144BMH
VSUN580N-144BMH
VSUN595N-144BMH
VSUN585N-144BMH
VSUN575N-144BMH

600W
Highest power output

23.23%
Module efficiency

1.0%
First-year degradation warranty

0.40%
Annual degradation over 30 years

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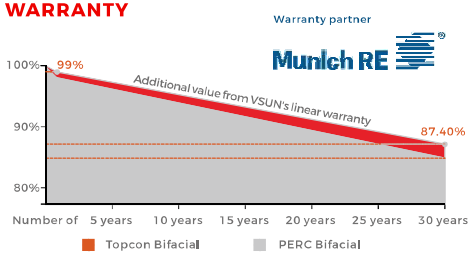
- Better shading tolerance
- Better temperature coefficient
- Excellent PID Resistance
- Lower LCOE
- UL 61730 & CSA 61730
  IEC 61215 & IEC 61730

PRODUCT CERTIFICATION

TUV 900 · CSA C US · CE · PV CYCLE · ISO · IEC

WARRANTY

Warranty partner Munich RE



Update Time: 2025.04.14
Version: 2.0

Electrical Characteristics at Standard Test Conditions(STC)

Module Type	VSUN600N-144BMH	VSUN595N-144BMH	VSUN590N-144BMH	VSUN585N-144BMH	VSUN580N-144BMH	VSUN575N-144BMH
Maximum Power - Pmax (W)	600	595	590	585	580	575
Open Circuit Voltage - Voc (V)	52.9	52.69	52.48	52.25	52.02	51.81
Short Circuit Current - Isc (A)	14.03	13.98	13.93	13.88	13.83	13.77
Maximum Power Voltage - Vmpp (V)	44.92	44.71	44.5	44.29	44.08	43.86
Maximum Power Current - Impp (A)	13.36	13.31	13.26	13.21	13.16	13.11
Module Efficiency	23.23%	23.03%	22.84%	22.65%	22.45%	22.26%

Standard Test Conditions (STC): irradiance 1,000 W/m²; AM 1,5; module temperature 25°C. Pmax Sorting : 0~5W. Measuring Tolerance: ±3%.
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Pmax (W)	Voc (V)	Isc (A)	Vmpp (V)	Impp (A)	Pmax gain
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Material Characteristics

Dimensions	2278×1134×30mm (L×W×H) 89.69*44.65*1.18 inches (L×W×H)
Weight	28.1kg / 61.95lbs
Frame	Silver anodized aluminum profile
Front Glass	AR-Coating toughened glass, 3.2 mm
Back sheet	Transparent white-mesh backsheet
Cells	12×12 pcs mono solar cells series strings
Junction Box	IP68, 3 diodes
Cable	Potrait: +300mm/-400mm (cable length can be customized) , 1×4mm2 or 12AWG

System Design

Maximum System Voltage [V]	1500
Series Fuse Rating [A]	30
Bifaciality	80%±10%
Fire Rating	Class C for IEC and TYPE 1 for US
Protection Class	Class II
Temperature Range	-40 °C to + 85 °C
Maximum Surface Load	+5400/-2400 Pa +113/-50 psf
Application class	class A
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23 m/s

Packaging

Dimensions(L×W×H)	2310×1125×1253mm / 90.94*44.29*49.33inches
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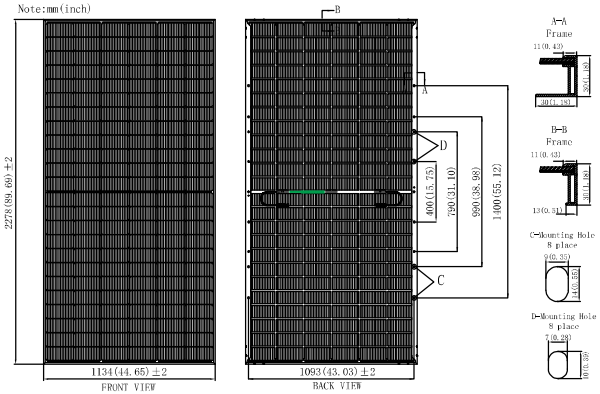
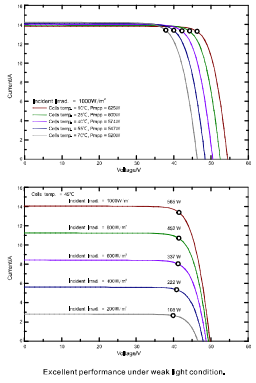


IV-Curves



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