



575-595W

N-type TOPCon
Solar Module

23.02%

Maximum Module Efficiency



10-30% Additional Power Generation

30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally which can increase power generation.

Higher Reliability

Adopted the latest S-TOPCo 2.0 technology, No polysilicon wrap around, Full electrical isolation, Zero leakage current; Much Safer for roof.

Better Weak Illumination Response

Higher power output even under low-light environments like on cloudy or foggy days.

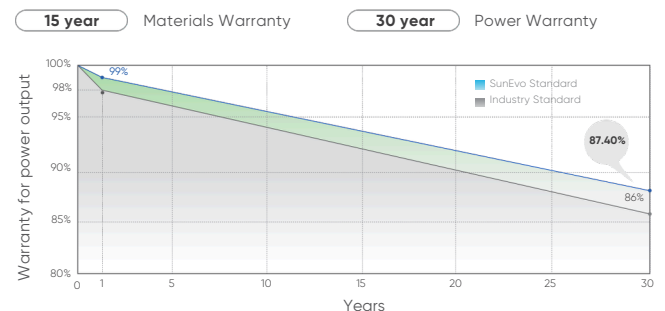
Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology.

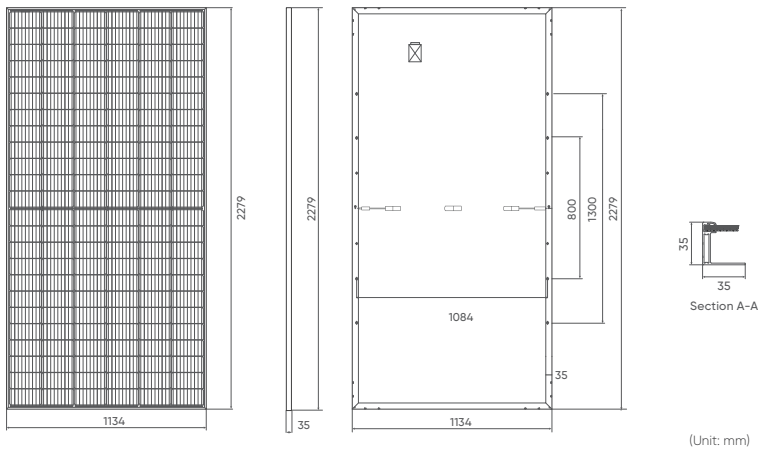
Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt), IEC62716 (Ammonia), IEC60068-2-68(Sand), ISO 9001:2015/quality management system, ISO 14001:2015/environmental management system, ISO 45001:2018/occupation health safety management system, ISO 50001:2011/energy management system, IEC TS 62941-2016/PV industry quality management system.

Quality Guarantee

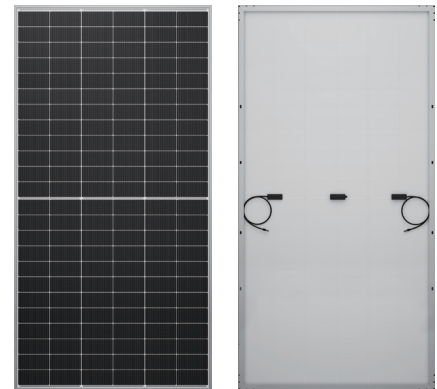


Drawings



(Unit: mm)

Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	144 (6×24)
Dimensions	2279 × 1134 × 35mm
Weight	27.5kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Wind/Snow load	2400Pa/5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 620pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+5W

Temperature Characteristics

Nominal Operating Temperature (NMOT)	45±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C

Electrical Parameters (STC*)

Module Type: SE5-72H	575	580	585	590	595
Voltage at Maximum Power (Vmpp/V)	44.83	45.03	45.23	45.46	45.69
Current at Maximum Power (Impp/A)	12.83	12.90	12.94	13.00	13.03
Open Circuit Voltage (Voc/V)	52.60	52.80	53.00	53.20	53.40
Short Circuit Current (Isc/A)	13.46	13.50	13.54	13.58	13.62
Module Efficiency (%)	22.25	22.44	22.64	22.83	23.02

Electrical Parameters (NMOT*)

Maximum Power (Pmax)	435	439	443	447	451
Voltage at Maximum Power (Vmpp/V)	43.15	43.34	43.54	43.72	43.90
Current at Maximum Power (Impp/A)	10.08	10.12	10.16	10.21	10.28
Open Circuit Voltage (Voc/V)	50.03	50.22	50.41	50.60	50.79
Short Circuit Current (Isc/A)	10.59	10.63	10.66	10.69	10.72

- Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
- Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C.
- Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%.

I-V Curve

