TN SOLAR

560-580W

SE5-72H

N-type TOPCon Black Frame
Solar Module

22.44%
Max. 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

Adpoted SunEvo lastest 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

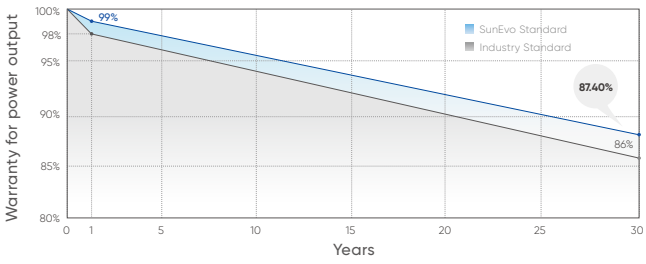
Higher power generation under working conditions, thanks to passivating contact cell technology.

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

25 year Materials Warranty **30 year** Power Warranty



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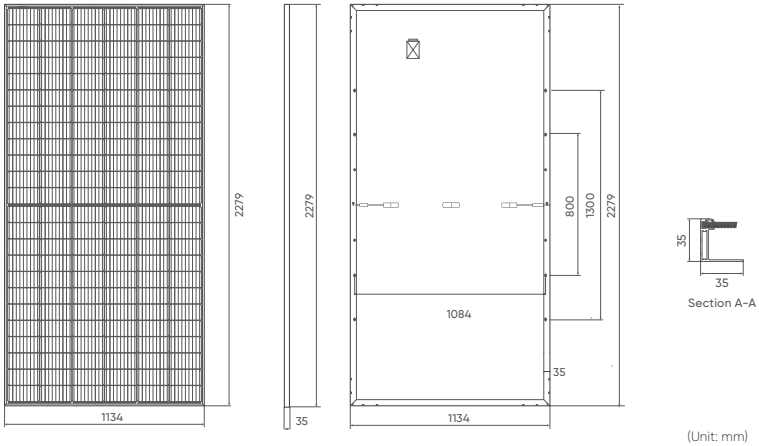
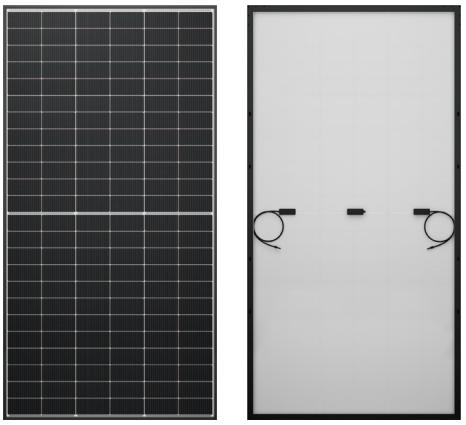
Drawings



(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 aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm², 300mm (+) / 300mm (-), Length can be customized
Connectors	Mc4 compatible
M echanical load test	5400Pa
Packaging	31pcs/box, 155pcs/20'GP, 620pcs/40'HQ

Operating Characteristics

Operating Module Temperature	-40°C to +85°C
Maximun System Voltage	1500 DC (IEC)
Maximun 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**	560	565	570	575	580
Maximum power (Pmax/W)	560	565	570	575	580
Open Circuit Voltage (Voc/V)	51.03	51.17	51.30	51.44	51.57
Short Circuit Current (Isc/A)	14.05	14.12	14.19	14.26	14.33
Voltage at Maximum power (Vmpp/V)	42.49	42.64	42.79	42.94	43.09
Current Maximum Power (Impp/A)	13.18	13.25	13.32	13.39	13.46
MODULE EFFICIENCY (%)	21.67	21.86	22.06	22.25	22.44

Electrical Parameters (NMOT*)

Maximum power (Pmax)	421	425	429	433	437
Open Circuit Voltage (Voc/V)	48.41	48.60	48.78	48.96	49.14
Short Circuit Current (Isc/A)	11.33	11.39	11.45	11.51	11.57
Voltage at Maximum power (Vmpp/V)	39.31	39.46	39.61	39.76	39.91
Current Maximum Power (Impp/A)	10.71	10.77	10.83	10.89	10.95

1. Standard Test Conditions [STC]: irradiance 1000W/m²; AM 1.5; ambient temperature 25°C according to EN 60904-3;
2. Nominal Module Operating Temperature (NMOT): Irradiance 800W/m²; wind speed 1m/s , ambient temperature 20°C.
3. 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