



370-390W

TN5-54H

N-type TOPCon
Orange Solar Module

Orange

Module Color

Roofing Aesthetics with multiple colours

Multiple colourful glasses & frames looks well integrated to roof tiles or modern building.

ZERO LID (Light Induced Degradation)

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

Higher Reliability

Adopted 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.

10-30% Additional Power Generation

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

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.

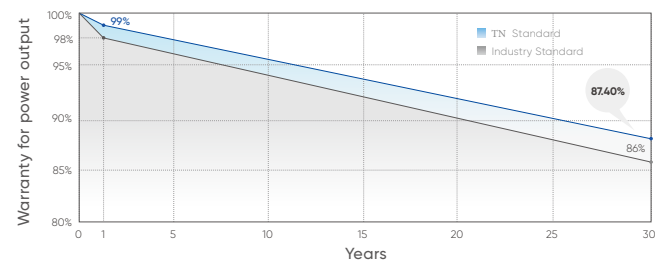
Quality Guarantee

25 year

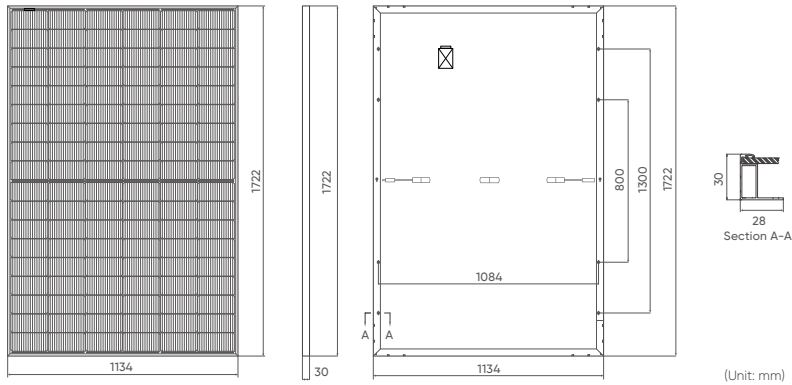
Materials Warranty

30 year

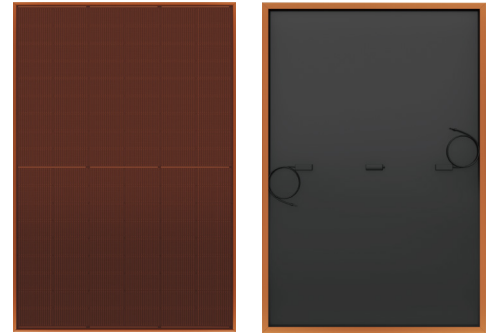
Power Warranty



Drawings



Product Image



Mechanical Characteristics

Solar Cells	N-type Mono
No. of Cells	108 (6×18)
Dimensions	1722 × 1134 × 30mm
Weight	21.0kg
Front Glass	3.2mm coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated (3 by pass diodes)
Output Cables	4mm ² , 300mm (+) / 300mm (-), Length can be customized
Connectors	MC4 compatible
Mechanical Load Test	5400Pa
Packaging	36pcs/box, 216pcs/20'GP, 936pcs/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: TN5-54H	370	375	380	385	390
Maximum Power (Pmax/W)	370	375	380	385	390
Voltage at Maximum Power (Vmpp/V)	32.41	32.44	32.48	32.52	32.56
Current at Maximum Power (Impp/A)	11.42	11.56	11.70	11.84	11.98
Open Circuit Voltage (Voc/V)	38.58	38.66	38.75	38.83	38.92
Short Circuit Current (Isc/A)	11.95	12.07	12.19	12.31	12.43
Module Efficiency (%)	18.97	19.20	19.49	19.72	19.97

Electrical Parameters (NMOT*)

Maximum Power (Pmax)	278	282	286	290	294
Voltage at Maximum Power (Vmpp/V)	30.17	30.21	30.24	30.27	30.30
Current at Maximum Power (Impp/A)	9.22	9.33	9.45	9.58	9.70
Open Circuit Voltage (Voc/V)	36.67	36.75	36.83	36.91	36.99
Short Circuit Current (Isc/A)	9.65	9.74	9.84	9.93	10.02

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

