

N-type TSM472H-N 570-590 Watt MONO-FACIAL MODULE

N-Type

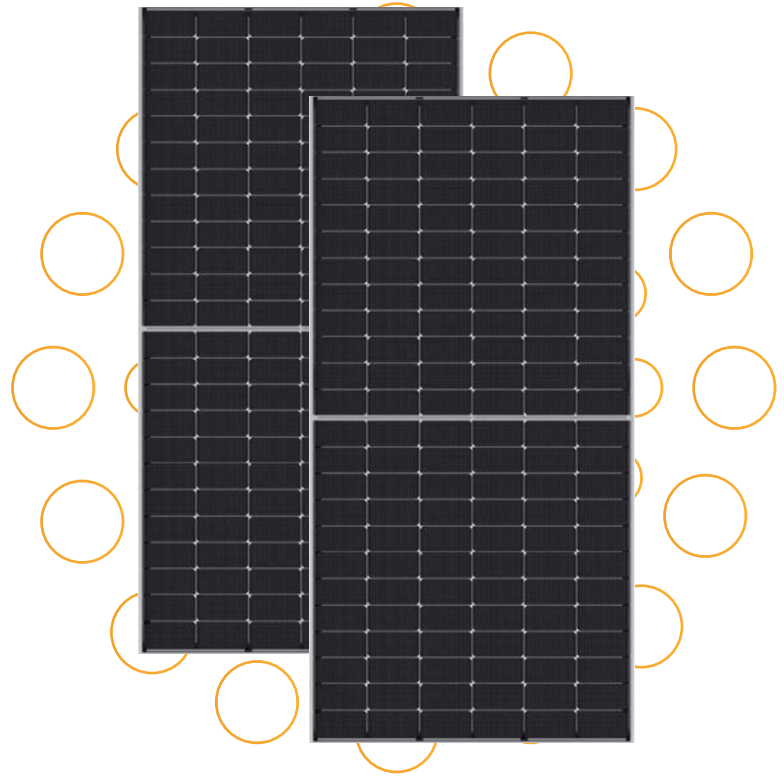
Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018
Occupational health and safety management systems



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

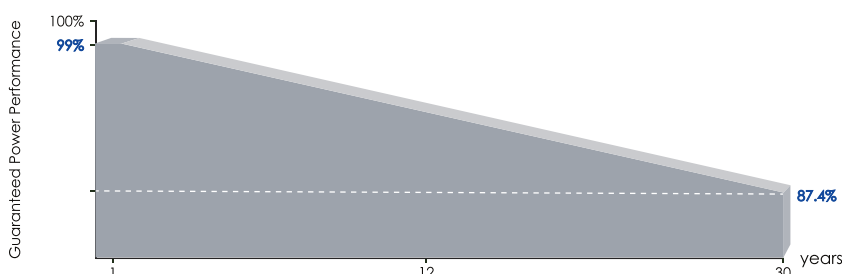


Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



LINEAR PERFORMANCE WARRANTY

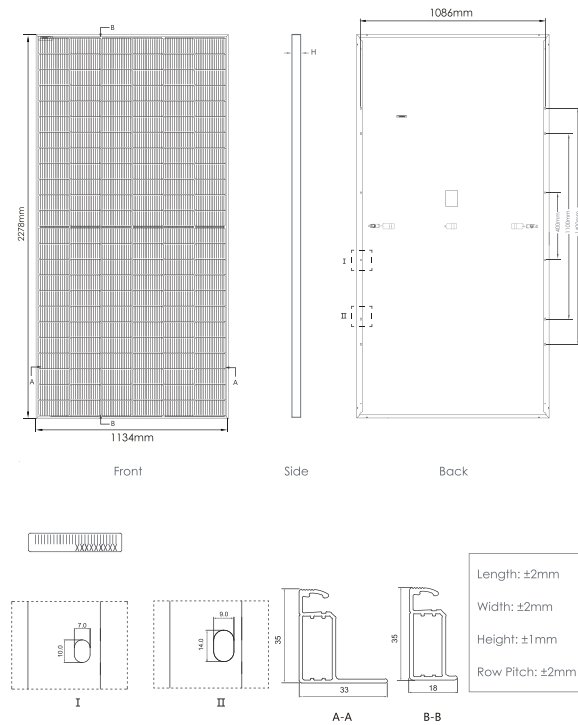


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

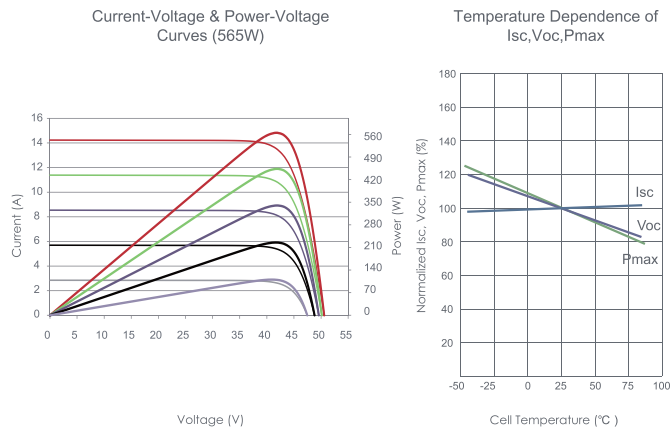


Packaging Configuration

(Two pallets = One stack)

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

Electrical Performance & Temperature Depend



Mechanical Characteristics

| | |
|---------------|---|
| Cell Type | N type Mono-crystalline |
| No. of cells | 144 (6×24) |
| Dimensions | 2278×1134×35mm (89.69×44.65×1.38 inch) |
| Weight | 28 kg (61.73 lbs) |
| Front Glass | 3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68 Rated |
| Output Cables | TUV 1×4.0mm ² (+): 400mm , (-): 200mm or Customized Length |

SPECIFICATIONS

| Module Type | TSM472H-N-570 | | TSM472H-N-575 | | TSM472H-N-580 | | TSM472H-N-585 | | TSM472H-N-590 | |
|---|--------------------|--------|---------------|--------|---------------|--------|---------------|--------|---------------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 570W | 429W | 575W | 432W | 580W | 436W | 585W | 440W | 590W | 444W |
| Maximum Power Voltage (Vmp) | 42.07V | 39.51V | 42.22V | 39.60V | 42.37V | 39.73V | 42.52V | 39.86V | 42.67V | 39.99V |
| Maximum Power Current (Imp) | 13.55A | 10.85A | 13.62A | 10.92A | 13.69A | 10.98A | 13.76A | 10.04A | 13.83A | 11.10A |
| Open-circuit Voltage (Voc) | 50.74V | 48.20V | 50.88V | 48.33V | 51.02V | 48.46V | 51.16V | 48.59V | 51.30V | 48.72V |
| Short-circuit Current (Isc) | 14.31A | 11.55A | 14.39A | 11.62A | 14.47A | 11.69A | 14.55A | 11.76A | 14.63A | 11.83A |
| Module Efficiency STC (%) | 22.07% | | 22.26% | | 22.45% | | 22.65% | | 22.84% | |
| Operating Temperature(°C) | -40°C~+85°C | | | | | | | | | |
| Maximum system voltage | 1000/1500VDC (IEC) | | | | | | | | | |
| Maximum series fuse rating | 25A | | | | | | | | | |
| Power tolerance | 0~+3% | | | | | | | | | |
| Temperature coefficients of Pmax | -0.30%/°C | | | | | | | | | |
| Temperature coefficients of Voc | -0.25%/°C | | | | | | | | | |
| Temperature coefficients of Isc | 0.046%/°C | | | | | | | | | |
| Nominal operating cell temperature (NOCT) | 45±2°C | | | | | | | | | |

*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

Specifications included in this datasheet are subject to change without notice.