

TNC^{2.0}

N-type Half-cell Monofacial Dual Glass Black Frame Module (48)

TWMNH-48HW



Higher power output, higher conversion efficiency



Passed hail resistance test for higher reliability



Compact size and lightweight, making installation easier

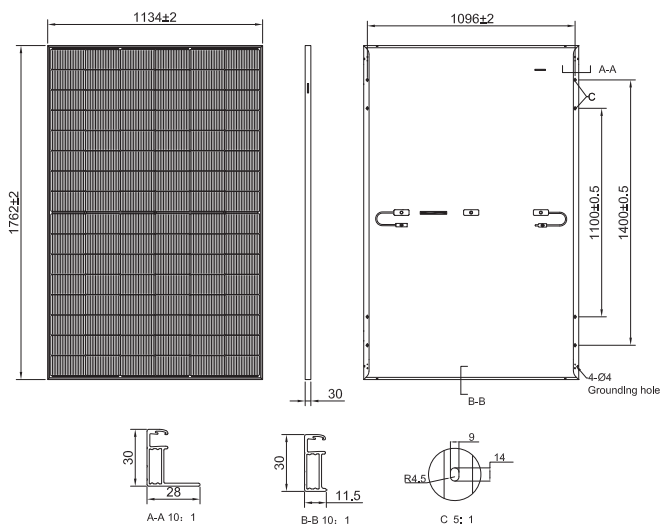


Exquisite appearance, enhancing home aesthetics

455-475W



Drawing (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-48HWXXX

Maximum Power: Pmax [W]	455	460	465	470	475
Open Circuit Voltage: Voc [V]	36.10	36.25	36.40	36.55	36.70
Short Circuit Current: Isc [A]	15.85	15.89	15.92	15.95	15.97
Voltage at Maximum Power: Vmp [V]	30.06	30.31	30.56	30.80	31.05
Current at Maximum Power: Imp [A]	15.14	15.18	15.22	15.26	15.30
Module Efficiency: η [%]	22.8	23.0	23.3	23.5	23.8

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5, Power measurement tolerance: ±3%

Temperature Rating

Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C

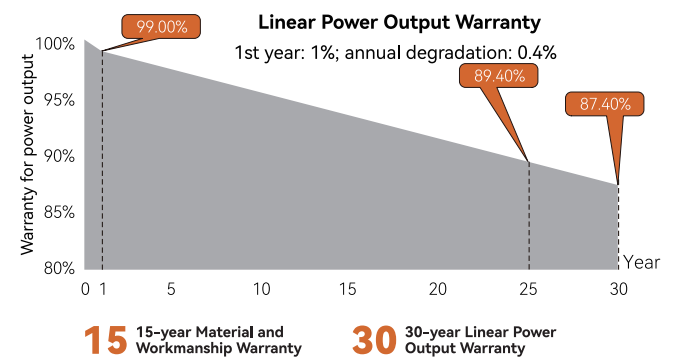
Operating Parameters

Operating Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%

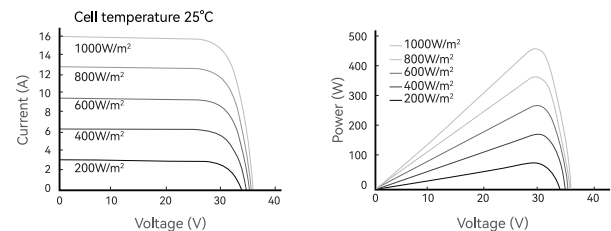
Mechanical Parameters

Cell Type	TNC
Cell Orientation	96[6×16]
Dimension	1762±2×1134±2×30mm
Weight	23.7 kg
Front Glass	2.0 mm AR coating semi tempered glass
Rear Glass	2.0 mm semi tempered glass
Frame	Anodized aluminum alloy black frame
Junction Box	IP68, 3 diodes
Cable	4.0 mm ²
Cable Length	+1200mm,-1200mm,length can be customized
Maximum Static Test Load	6,000 Pa (front) / 4,000 Pa (rear)
Packaging (Per pallet)	36 pcs
Packaging	936 pcs per 40'HC

Warranty



Curve



Certifications

Quality Management System and Product Certification

ISO 9001: 2015 / Quality Management System
ISO 14001: 2015 / Environmental Management System
ISO 45001: 2018 / Occupational Health and Safety Management System
ISO 50001: 2018 / Energy Management System
IEC 62941: 2019 / Quality System for PV Module Manufacturing
IEC 61215 (2021) / IEC 61730 (2023), IEC TS 62804,
IEC 61701, IEC 62716, IEC 60068-2-68



Scan the code for more information