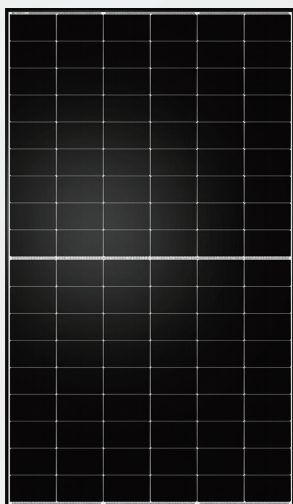


TNC

N-type Half-cell Bifacial Dual glass Black Frame and Transparent Module (54) TWMNH-54HD



High light transmittance, suitable for carports and balcony scenarios



Compact size and lightweight, hassle-free operation and low maintenance

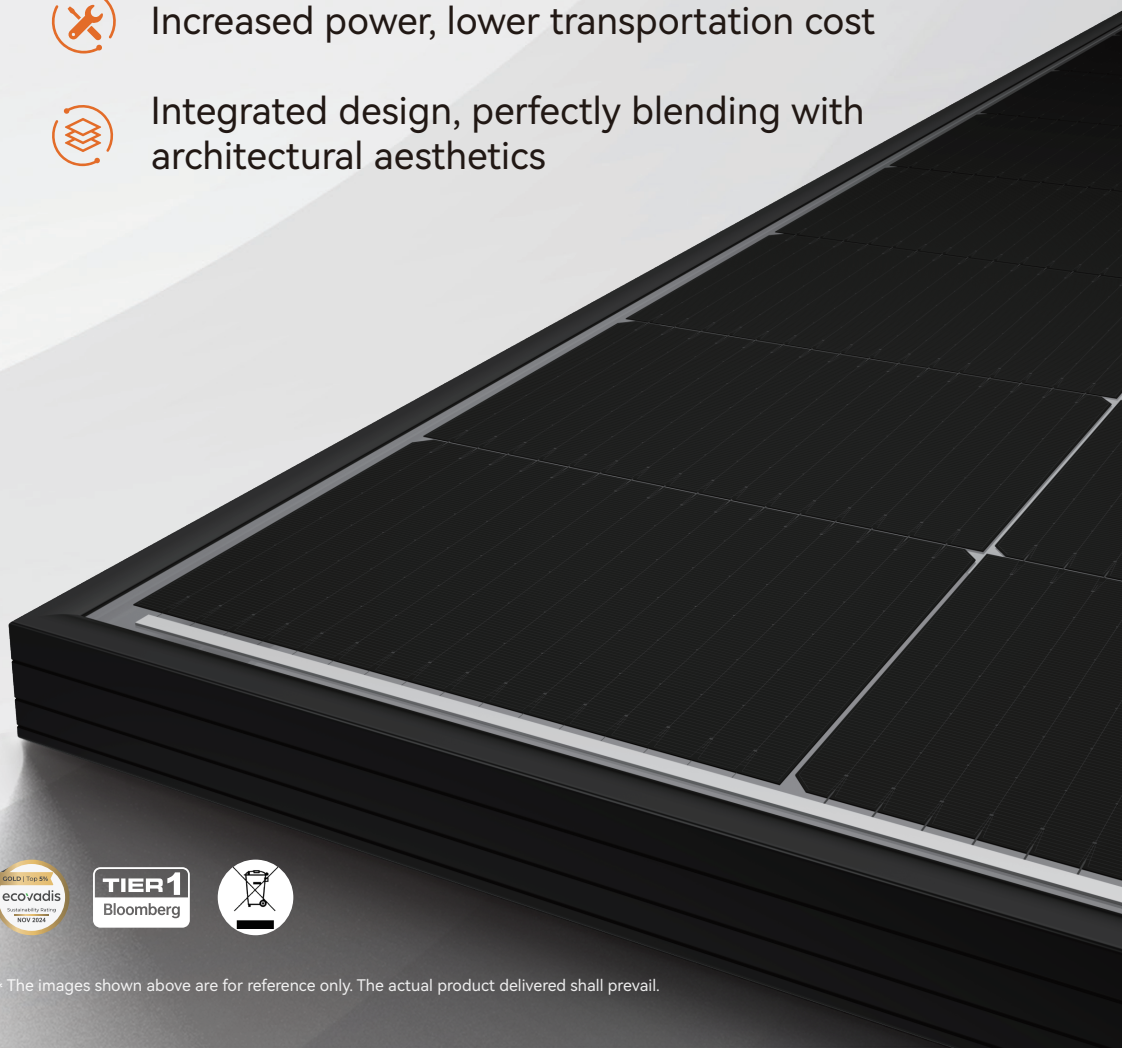


Increased power, lower transportation cost

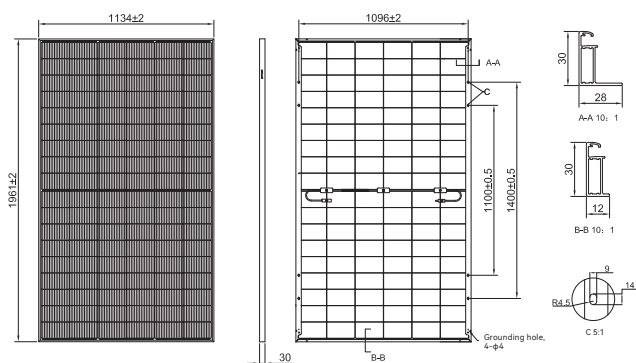


Integrated design, perfectly blending with architectural aesthetics

495-515W



Drawings (Unit: mm)



Electrical Characteristics (STC)

Module type: TWMNH-54HDXXX

Maximum Power: Pmax [W]	495	500	505	510	515
Open Circuit Voltage: Voc [V]	39.88	40.06	40.24	40.42	40.60
Short Circuit Current: Isc [A]	15.86	15.89	15.92	15.95	15.98
Voltage at Maximum Power: Vmp [V]	33.45	33.70	33.94	34.19	34.43
Current at Maximum Power: Imp [A]	14.80	14.84	14.88	14.92	14.96
Module Efficiency: η [%]	22.3	22.5	22.7	22.9	23.2

*STC: Irradiance = 1,000 W/m²; Cell temperature = 25°C; AM = 1.5, Power measurement tolerance: ±3%

Electrical characteristics with different rear side power gain

Maximum Power:Pmax [W]	519	525	530	535	540
Efficiency:η [%]	23.3	23.6	23.8	24.1	24.3
Maximum Power:Pmax [W]	569	575	580	586	592
Efficiency:η [%]	25.6	25.9	26.1	26.4	26.6
Maximum Power:Pmax [W]	618	625	631	637	643
Efficiency:η [%]	27.8	28.1	28.4	28.6	28.9

Temperature Rating

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

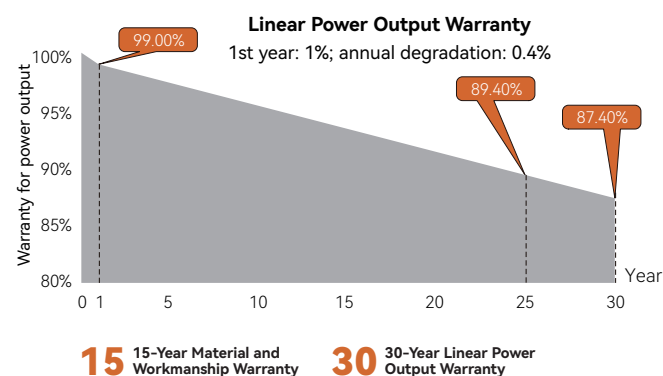
Operating Parameters

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality	80±5%

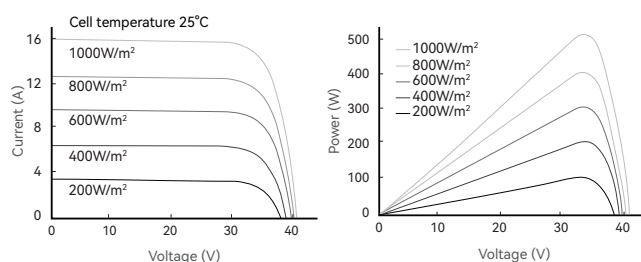
Mechanical Parameters

Cell Type	TNC
Cell Orientation	108[6×18]
Dimension	1961±2×1134±2×30mm
Weight	26.5kg
Front Glass	2.0mm AR coating semi tempered glass
Rear Glass	2.0mm semi tempered glass
Frame	Anodized aluminum alloy black frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ²
Cable Length	±1,200 mm, length can be customized
Maximum Static Test Load	5,400 Pa (front) / 2,400 Pa (rear)
Packaging (Per pallet)	36 pcs
Packaging	864 pcs per 40'HC

Warranty



Curve



Certifications

Quality Management System and Product Certification

ISO9001:2015/Quality Management System
ISO14001:2015/Environmental Management System
ISO45001:2018/Occupational Health and Safety Management System
ISO50001:2018 / Energy Management System
IEC 61215 / IEC 61730, IEC TS 62804,
IEC 61701, IEC 62716, IEC 60068-2-68



Scan the code for more information