

High Power Output
Low LCOE



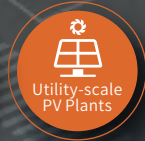
Maximum Power
640W+



TWMNH

N-type Half-cell
Bifacial Module(66)

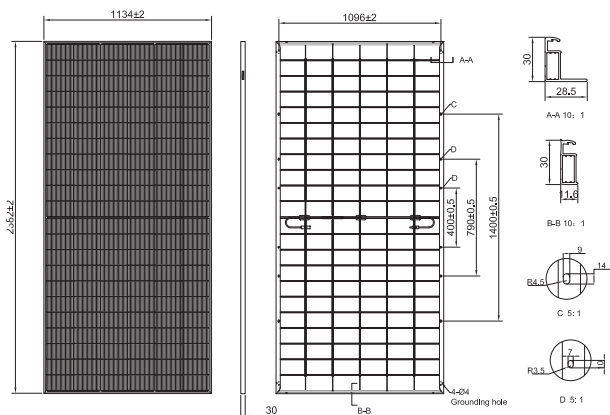
66HD620-640W



<https://en.tongwei.cn/>

Learn More

Drawings (Unit: mm)



Mechanical Parameters

Cell Type	TNC2.0 (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimensions	2382±2×1134±2×30mm
Weight	32.2kg
Front Glass	2.0mm AR coating semi tempered glass
Rear Glass	2.0mm semi tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ²
Cable length	+400mm,-200mm or ±1400mm,length can be customized
Max static test load	Front side 5400Pa,Rear side 2400Pa
Per pallet	36 pcs
Packaging	720 pcs per 40'HC

Electrical Characteristics (STC)

Module type: TWMNH-66HDXXX

Maximum Power: Pmax [W]	620	625	630	635	640
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	16.06	16.12	16.18	16.26	16.33
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	15.19	15.26	15.33	15.40	15.47
Module Efficiency: η [%]	23.0	23.1	23.3	23.5	23.7

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

Electrical Characteristics (BNPI)

Maximum Power: Pmax [W]	684.6	690.2	695.4	701.1	706.8
Open Circuit Voltage: Voc [V]	49.10	49.30	49.50	49.60	49.75
Short Circuit Current: Isc [A]	17.73	17.80	17.86	17.95	18.03
Voltage at Maximum Power: Vmp [V]	40.82	40.96	41.10	41.24	41.38
Current at Maximum Power: Imp [A]	16.77	16.85	16.92	17.00	17.08

* BNPI: Front side irradiance 1000W/m², Rear side irradiance 135W/m², Cell Temperature=25°C, AM=1.5
Power measurement tolerance: ±3%

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax[W]	651	656	661	666	672
	Module Efficiency: η [%]	24.1	24.3	24.5	24.7	24.9
15%	Maximum Power: Pmax[W]	713	718	724	730	736
	Module Efficiency: η [%]	26.4	26.6	26.8	27.0	27.2
25%	Maximum Power: Pmax[W]	775	781	787	793	800
	Module Efficiency: η [%]	28.7	28.9	29.1	29.4	29.6

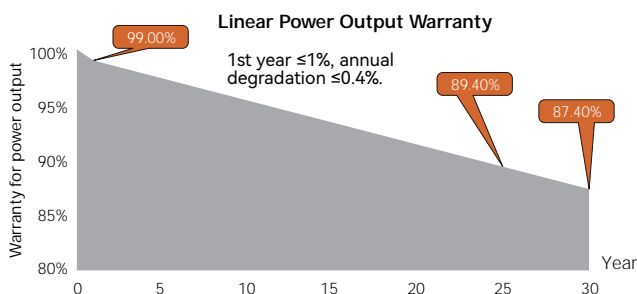
Temperature Rating

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

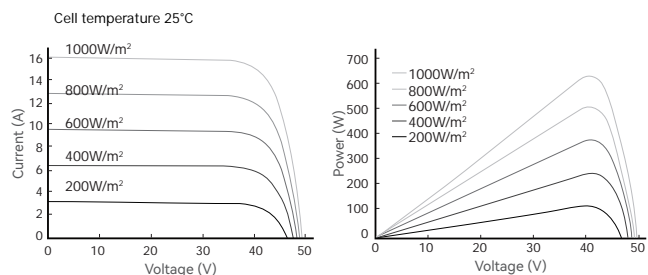
Operating Parameters

Operating Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality coefficient of Pmax	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%

Linear Warranty



I-V Curve



Certifications

Quality Management System and Product Certification

- ISO 9001: 2015/Quality management systems
- ISO 14001: 2015/Environmental management systems
- ISO 45001: 2018/Occupation health and safety management systems
- ISO 50001: 2018/Energy management systems
- IEC 62941: 2019/Quality system for PV module manufacturing
- IEC 61215(2021) / IEC 61730(2023), IEC 62804(PID), IEC 61701(Salt), IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

