TW SOLAR



High Power Output
Low LCOE

Maximum Power
620W+

TWMNH

N-type Half-cell Bifacial Module (66)

66HD600-620W

TIER 1 Bloomberg NEW ENERGY FINANCE

Commercial Rooftop

Utility-scale PV Plants

12 YEAR Materials Warranty

30 YEAR Power Warranty

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Learn More

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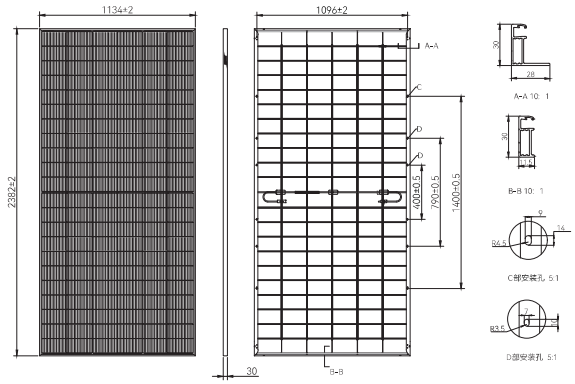
66HD600-620W

DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMNH-66HDXXX					
Maximum Power: Pmax [W]	600	605	610	615	620
Open Circuit Voltage: Voc [V]	47.50	47.70	47.90	48.10	48.30
Short Circuit Current: Isc [A]	15.75	15.80	15.85	15.90	15.95
Voltage at Maximum Power: Vmp [V]	40.75	40.95	41.15	41.35	41.55
Current at Maximum Power: Imp [A]	14.73	14.78	14.83	14.88	14.93
Module Efficiency: η [%]	22.2	22.4	22.6	22.8	23.0

* STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass1.5, Measuring Tolerance: ±3%

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	451	455	459	462	466
Open Circuit Voltage: Voc [V]	45.13	45.32	45.51	45.70	45.89
Short Circuit Current: Isc [A]	12.72	12.76	12.80	12.84	12.88
Voltage at Maximum Power: Vmp [V]	37.94	38.14	38.35	38.47	38.68
Current at Maximum Power: Imp [A]	11.89	11.93	11.97	12.01	12.05

* NMOT: Irradiance 800W/m², Ambient Temperature 20℃, Air Mass1.5, Wind Speed 1m/s

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax [W]	630	635	640	645	651
	Module Efficiency: η [%]	23.3	23.5	23.7	23.9	24.1
15%	Maximum Power: Pmax [W]	690	695	701	707	713
	Module Efficiency: η [%]	25.5	25.7	26.0	26.2	26.4
25%	Maximum Power: Pmax [W]	750	756	762	768	775
	Module Efficiency: η [%]	27.8	28.0	28.2	28.4	28.7

TEMPERATURE PARAMETERS

Temperature Coefficient (Pmax)	-0.28%/℃
Temperature Coefficient (Voc)	-0.24%/℃
Temperature Coefficient (Isc)	+0.046%/℃
NMOT	45±2℃

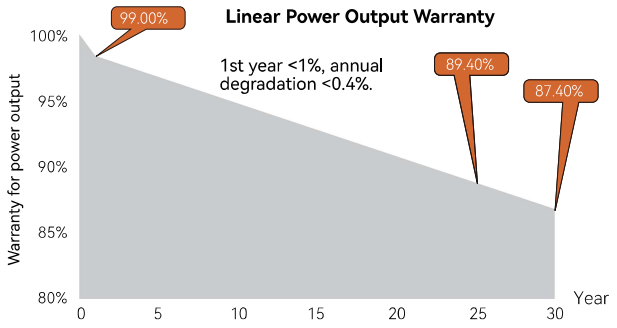
MAXIMUM RATINGS

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

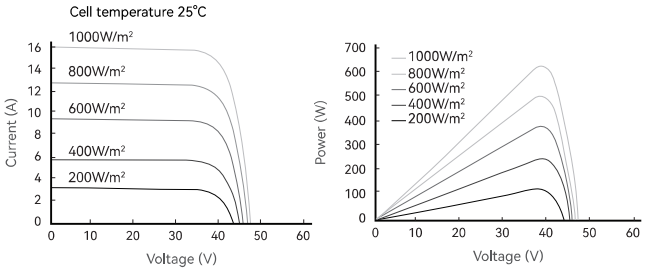
MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimension	2382±2×1134±2×30mm
Weight	32.5kg
Front Glass	2.0mm AR coated heat strengthened glass
Rear Glass	2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0 mm²
Cable Length	+400mm,-200mm or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs per 40'HC

WARRANTY



I-V CURVE



CERTIFICATIONS

Quality Management System and Product Certification

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

CE (Europe) CQC(China) TÜV NORD MCS (UK) KS (Korea) INMETRO (Brazil) JPEA (Japan) CEC (Australia) CSI (Italy)

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Statement: With technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar. (Preview-20240703)