



TWMNF

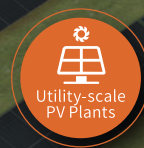
N-type Half-cell
Bifacial Module (66)

66HD690-710W

High Power Output
Low LCOE



Maximum Power
710W+



Utility-scale
PV Plants



12
YEAR
Materials
Warranty

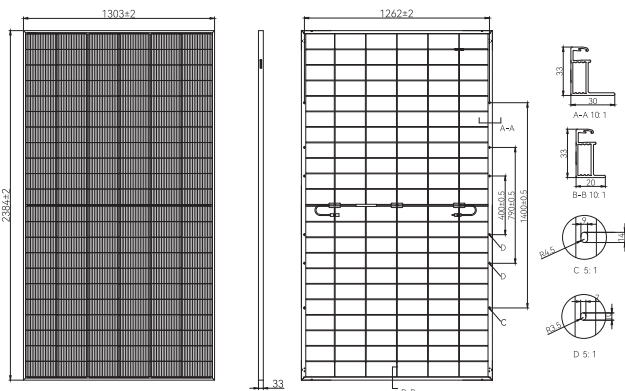


30
YEAR
Power
Warranty

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 DRAWINGS (Unit: mm) **ELECTRICAL CHARACTERISTICS (STC)**

Module Type: TWMNF-66HDXXX

Maximum Power: Pmax [W]	690	695	700	705	710
Open Circuit Voltage: Voc [V]	47.85	48.00	48.15	48.30	48.45
Short Circuit Current: Isc [A]	18.26	18.30	18.34	18.38	18.42
Voltage at Maximum Power: Vmp [V]	40.10	40.30	40.50	40.70	40.90
Current at Maximum Power: Imp [A]	17.21	17.25	17.29	17.33	17.37
Module Efficiency: η [%]	22.2	22.4	22.5	22.7	22.9

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3% **ELECTRICAL CHARACTERISTICS (NMOT)**

Maximum Power: Pmax [W]	519	523	526	530	534
Open Circuit Voltage: Voc [V]	45.46	45.60	45.74	45.89	46.03
Short Circuit Current: Isc [A]	14.74	14.77	14.81	14.84	14.87
Voltage at Maximum Power: Vmp [V]	37.37	37.55	37.68	37.89	38.09
Current at Maximum Power: Imp [A]	13.89	13.93	13.96	13.99	14.02

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s **ELECTRICAL CHARACTERISTICS (Rear Power Gain)**

5%	Maximum Power: Pmax[W]	724	729	735	740	746
	Module Efficiency: η [%]	23.3	23.5	23.7	23.8	24.0
15%	Maximum Power: Pmax[W]	793	799	805	810	816
	Module Efficiency: η [%]	25.5	25.7	25.9	26.1	26.3
25%	Maximum Power: Pmax[W]	862	868	875	881	887
	Module Efficiency: η [%]	27.7	27.9	28.2	28.4	28.6

 TEMPERATURE PARAMETERS

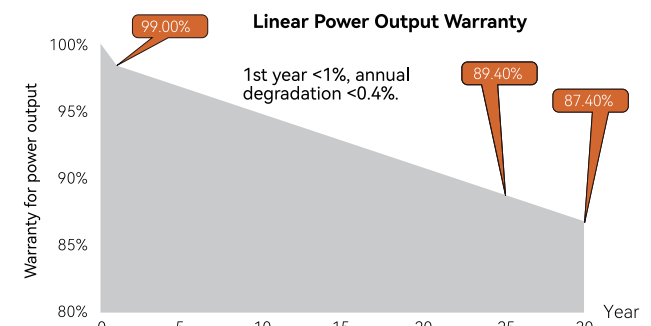
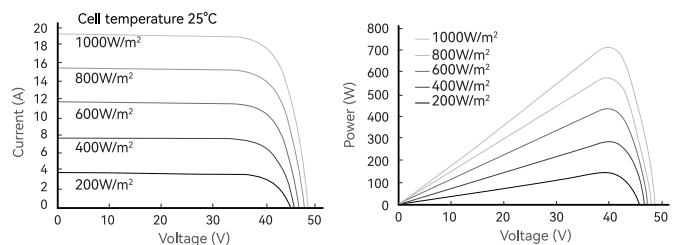
Temperature Coefficient (Pmax)	-0.30%/°C
Temperature Coefficient (Voc)	-0.25%/°C
Temperature Coefficient (Isc)	+0.046%/°C
NMOT	45±2°C

 MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+5W
Maximum Bifaciality	80±5%

 MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimension	2384±2 × 1303±2×33mm
Weight	38.3kg
Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	33pcs per pallet, 594pcs 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)



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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-20240220)