TW SOLAR



TWMNF

N-type Half-cell Bifacial Module(66)

66HD700-720W

Certisolis

TIER 1 Bloomberg NEW ENERGY FINANCE

Utility-scale PV Plants

12 YEAR Materials Warranty

30 YEAR Power Warranty

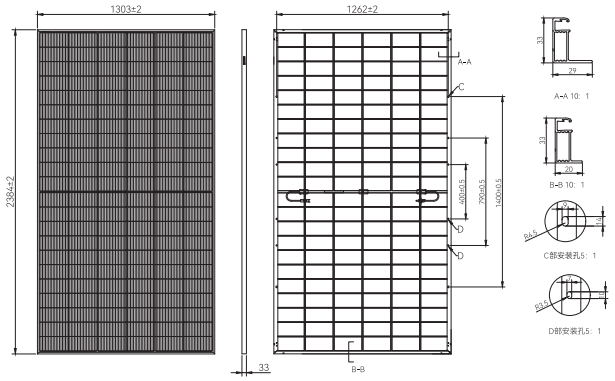
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DRAWINGS (Unit: mm)



MECHANICAL PARAMETERS

Cells	TNC(N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimension	2384±2×1303±2×33mm
Weight	37.9kg
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	4.0mm²
Cable Length	+400mm, -200mm or±1400mm,length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	33pcs per pallet, 594pcs per 40'HC

Electrical Characteristics (STC)

Moduel type: TWMNF-66HDXXX					
Maximum Power: Pmax [W]	700	705	710	715	720
Open Circuit Voltage: Voc [V]	48.60	48.77	48.94	49.11	49.28
Short Circuit Current: Isc [A]	18.35	18.40	18.45	18.50	18.55
Voltage at Maximum Power: Vmp [V]	40.35	40.52	40.69	40.86	41.03
Current at Maximum Power: Imp [A]	17.35	17.40	17.45	17.50	17.55
Module Efficiency: η [%]	22.5	22.7	22.9	23.0	23.2

* STC: Irradiance 1000W/m², Cell Temperature 25℃, AM=1.5

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	526	530	534	538	541
Open Circuit Voltage: Voc [V]	46.17	46.33	46.49	46.65	46.82
Short Circuit Current: Isc [A]	14.82	14.86	14.90	14.94	14.98
Voltage at Maximum Power: Vmp [V]	37.55	37.73	37.90	38.08	38.18
Current at Maximum Power: Imp [A]	14.01	14.05	14.09	14.13	14.17

* NMOT: Irradiance 800W/m², Ambient Temperature 20℃, AM=1.5, Wind Speed 1m/s

ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: Pmax[W]	735	740	745	750	756
	Module Efficiency: η [%]	23.7	23.8	24.0	24.1	24.3
15%	Maximum Power: Pmax[W]	805	810	816	822	828
	Module Efficiency: η [%]	25.9	26.1	26.3	26.5	26.7
25%	Maximum Power: Pmax[W]	875	881	887	893	900
	Module Efficiency: η [%]	28.2	28.4	28.6	28.7	29.0

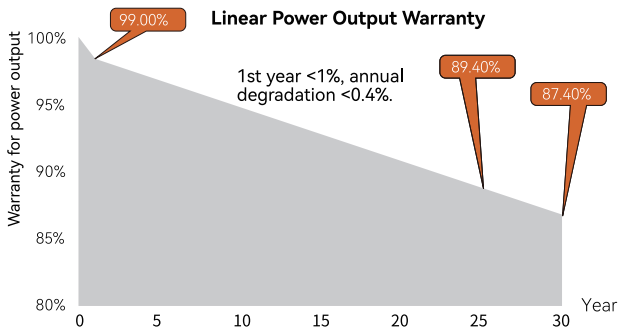
TEMPERATURE PARAMETERS

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

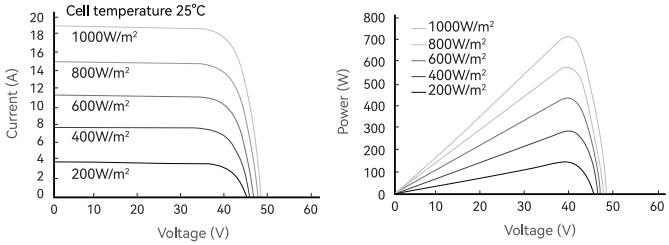
MAXIMUM RATINGS

Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A
Power Output Tolerance	0~+3%
Bifaciality	80±5%

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-20240703)