

High Power Output
Low LCOE 

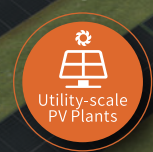
Maximum Power
710W+ 

TWMNF

N-type Half-cell
Bifacial Module (66)

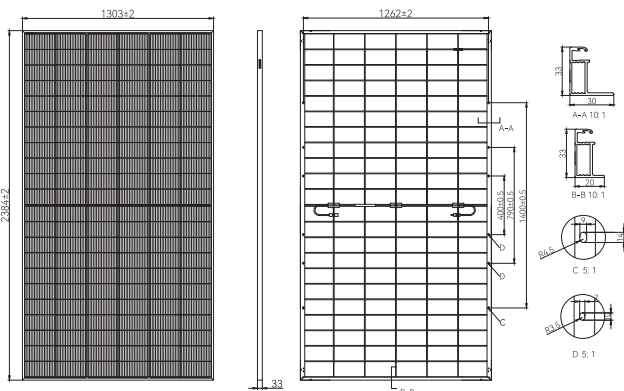
66HD690-710W

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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	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

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

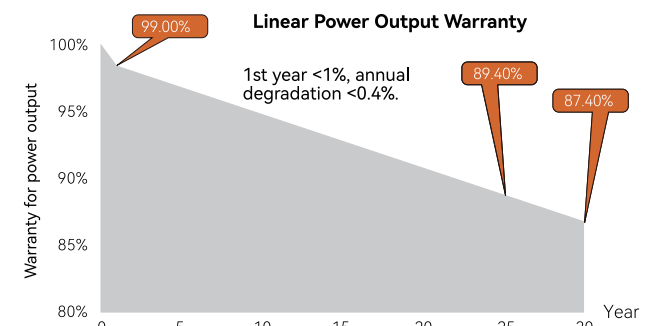
TEMPERATURE PARAMETERS

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

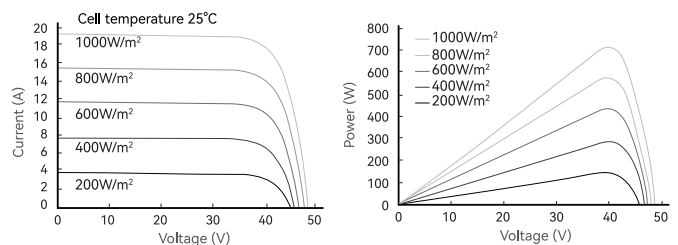
MAXIMUM RATINGS

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%

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)

