

High Power Output
Low LCOE

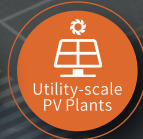


Maximum Power
630W+



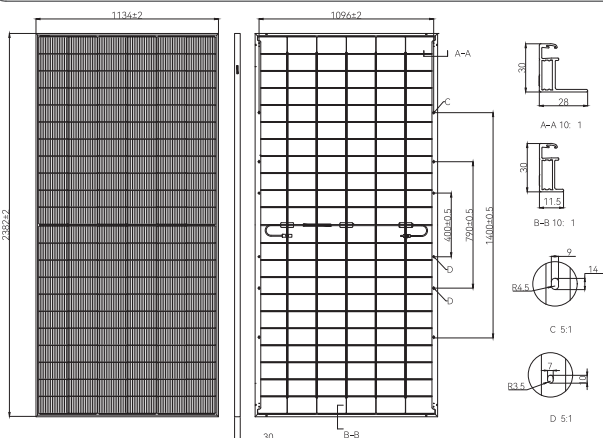
TWMNH N-type Half-cell Bifacial Module (66) 66HD610-630W

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DRAWINGS (Unit: mm)



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	4.0mm ²
Cable Length	+400mm, -200mm or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs per 40'HC

Electrical Characteristics (STC)

Module Type: TWMNH-66HDXXX					
Maximum Power: Pmax [W]	610	615	620	625	630
Open Circuit Voltage: Voc [V]	48.70	48.90	49.10	49.30	49.50
Short Circuit Current: Isc [A]	15.94	16.00	16.06	16.12	16.18
Voltage at Maximum Power: Vmp [V]	40.48	40.65	40.82	40.96	41.10
Current at Maximum Power: Imp [A]	15.07	15.13	15.19	15.26	15.33
Module Efficiency: η [%]	22.6	22.8	23.0	23.1	23.3

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass1.5

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	461	464	468	472	476
Open Circuit Voltage: Voc [V]	46.36	46.55	46.74	46.93	47.12
Short Circuit Current: Isc [A]	12.87	12.92	12.97	13.01	13.06
Voltage at Maximum Power: Vmp [V]	37.89	37.98	38.18	38.32	38.45
Current at Maximum Power: Imp [A]	12.17	12.22	12.26	12.32	12.38

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

Electrical characteristics with different rear side power gain

5%	Maximum Power: Pmax [W]	640	645	651	656	661
	Module Efficiency: η [%]	23.7	23.9	24.1	24.3	24.5
15%	Maximum Power: Pmax [W]	701	707	713	718	724
	Module Efficiency: η [%]	26.0	26.2	26.4	26.6	26.8
25%	Maximum Power: Pmax [W]	762	768	775	781	787
	Module Efficiency: η [%]	28.2	28.4	28.7	28.9	29.1

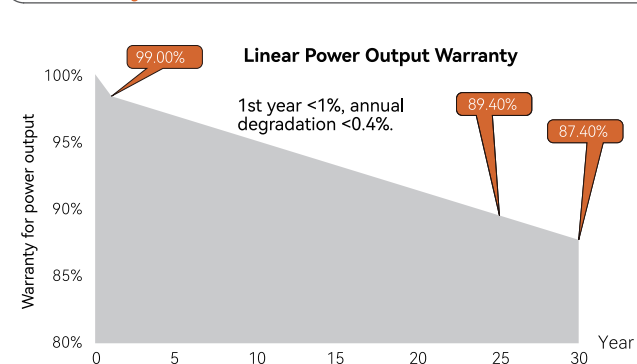
Temperature Rating

Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C
NMOT	45±2°C

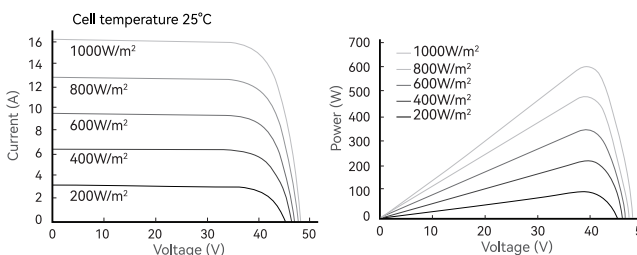
Operating Parameters

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
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)

