

High Power Output
Low LCOE



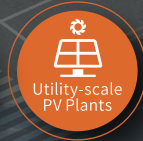
Maximum Power
590W+



TWMND

N-type Half-cell
Bifacial Module (72)

72HD570-590W

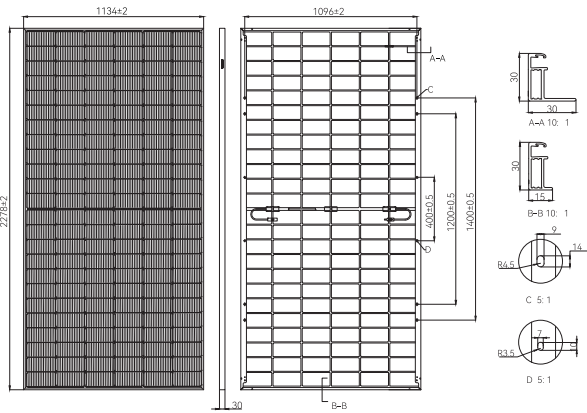


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DRAWINGS (Unit: mm)



MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6×24]
Dimension	2278±2×1134±2×30mm
Weight	31.5kg
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	36pcs per pallet, 720pcs per 40'HC

ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMND-72HDXXX

Maximum Power: Pmax [W]	570	575	580	585	590
Open Circuit Voltage: Voc [V]	51.90	52.10	52.30	52.50	52.70
Short Circuit Current: Isc [A]	13.75	13.80	13.85	13.90	13.95
Voltage at Maximum Power: Vmp [V]	43.60	43.76	43.93	44.10	44.27
Current at Maximum Power: Imp [A]	13.08	13.14	13.21	13.27	13.33
Module Efficiency: η [%]	22.1	22.3	22.5	22.6	22.8

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	428.6	432.4	436.2	439.9	443.7
Open Circuit Voltage: Voc [V]	49.31	49.50	49.69	49.88	50.07
Short Circuit Current: Isc [A]	11.10	11.14	11.18	11.22	11.26
Voltage at Maximum Power: Vmp [V]	40.59	40.76	40.89	41.08	41.24
Current at Maximum Power: Imp [A]	10.56	10.61	10.67	10.71	10.76

* 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]	598.5	603.8	609.0	614.3	619.5
	Module Efficiency: η [%]	23.2	23.4	23.6	23.8	24.0
15%	Maximum Power: Pmax[W]	655.5	661.3	667.0	672.8	678.5
	Module Efficiency: η [%]	25.4	25.6	25.8	26.0	26.3
25%	Maximum Power: Pmax[W]	712.5	718.8	725.0	731.3	737.5
	Module Efficiency: η [%]	27.6	27.8	28.1	28.3	28.5

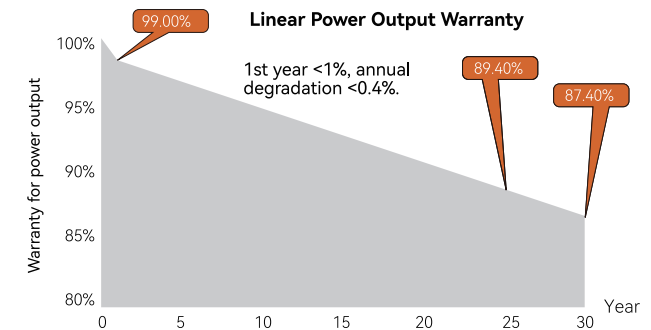
TEMPERATURE PARAMETERS

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

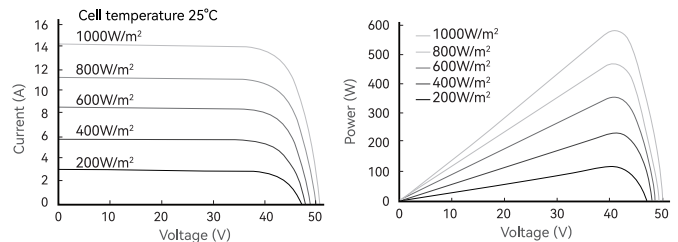
MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
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)

