



TWMND

N-type Half-cell
Bifacial Module (72)

72HD575-595W

High Power Output
Low LCOE



Maximum Power
595W+



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Commercial
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Utility-scale
PV Plants



12
YEAR
Materials
Warranty

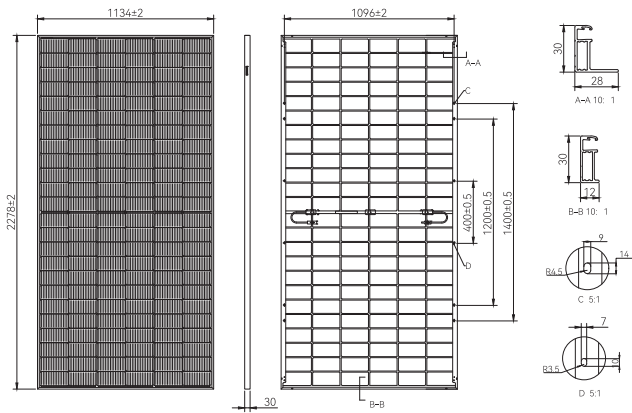


30
YEAR
Power
Warranty



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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMND-72HDXXX

Maximum Power: P _{max} [W]	575	580	585	590	595
Open Circuit Voltage: V _{oc} [V]	52.10	52.30	52.50	52.70	53.20
Short Circuit Current: I _{sc} [A]	13.80	13.85	13.90	13.95	14.15
Voltage at Maximum Power: V _{mp} [V]	43.76	43.93	44.10	44.27	44.41
Current at Maximum Power: I _{mp} [A]	13.14	13.21	13.27	13.33	13.40
Module Efficiency: η [%]	22.3	22.5	22.6	22.8	23.0

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: P _{max} [W]	432.4	436.2	439.9	443.7	447.4
Open Circuit Voltage: V _{oc} [V]	49.50	49.69	49.88	50.07	50.54
Short Circuit Current: I _{sc} [A]	11.14	11.18	11.22	11.26	11.42
Voltage at Maximum Power: V _{mp} [V]	40.76	40.89	41.08	41.24	41.35
Current at Maximum Power: I _{mp} [A]	10.61	10.67	10.71	10.76	10.82

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

ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: P _{max} [W]	603.8	609.0	614.3	619.5	624.8
	Module Efficiency: η [%]	23.4	23.6	23.8	24.0	24.2
15%	Maximum Power: P _{max} [W]	661.3	667.0	672.8	678.5	684.3
	Module Efficiency: η [%]	25.6	25.8	26.0	26.3	26.5
25%	Maximum Power: P _{max} [W]	718.8	725.0	731.3	737.5	743.8
	Module Efficiency: η [%]	27.8	28.1	28.3	28.5	28.8

TEMPERATURE PARAMETERS

Temperature Coefficient (P _{max})	-0.28%/°C
Temperature Coefficient (V _{oc})	-0.24%/°C
Temperature Coefficient (I _{sc})	+0.046%/°C
NMOT	45±2°C

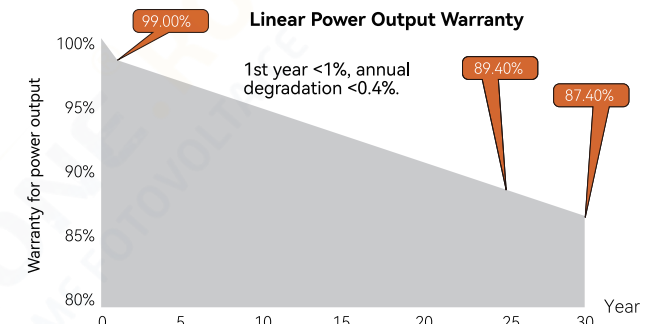
MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+3%
Bifaciality	80±5%

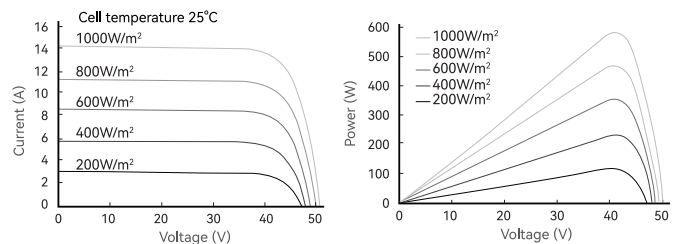
MECHANICAL PARAMETERS

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

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)

