

High Power Output  
Low LCOE



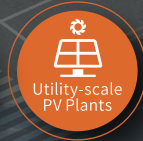
Maximum Power  
595W+



# TWMND

N-type Half-cell  
Bifacial Module (72)

## 72HD575-595W

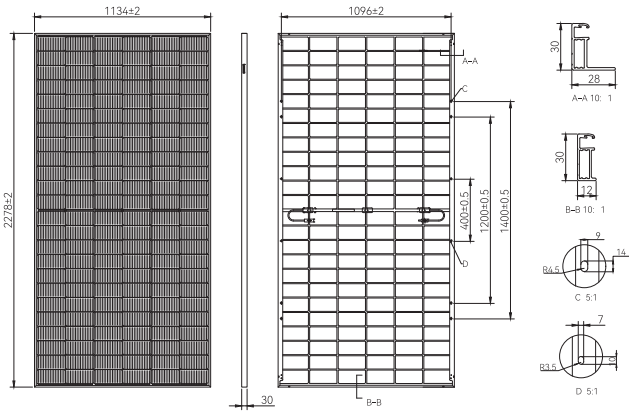


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**DRAWINGS (Unit: mm)**



**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 <sup>2</sup>
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]	575	580	585	590	595
Open Circuit Voltage: Voc [V]	52.10	52.30	52.50	52.70	53.20
Short Circuit Current: Isc [A]	13.80	13.85	13.90	13.95	14.15
Voltage at Maximum Power: Vmp [V]	43.76	43.93	44.10	44.27	44.41
Current at Maximum Power: Imp [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/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%

**ELECTRICAL CHARACTERISTICS (NMOT)**

Maximum Power: Pmax [W]	432.4	436.2	439.9	443.7	447.4
Open Circuit Voltage: Voc [V]	49.50	49.69	49.88	50.07	50.54
Short Circuit Current: Isc [A]	11.14	11.18	11.22	11.26	11.42
Voltage at Maximum Power: Vmp [V]	40.76	40.89	41.08	41.24	41.35
Current at Maximum Power: Imp [A]	10.61	10.67	10.71	10.76	10.82

\* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

**ELECTRICAL CHARACTERISTICS (Rear Power Gain)**

5%	Maximum Power: Pmax[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: Pmax[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: Pmax[W]	718.8	725.0	731.3	737.5	743.8
	Module Efficiency: η [%]	27.8	28.1	28.3	28.5	28.8

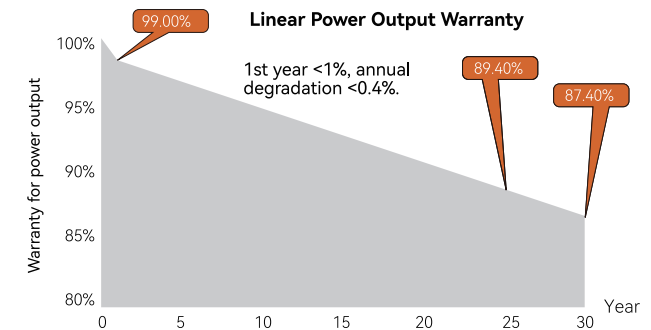
**TEMPERATURE PARAMETERS**

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

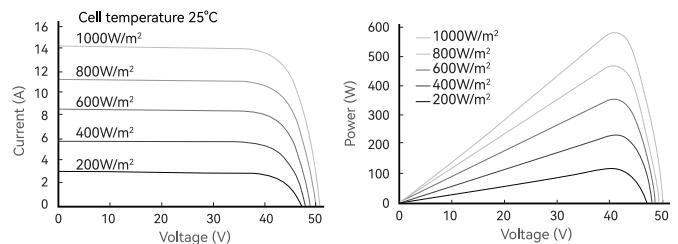
**MAXIMUM RATINGS**

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

