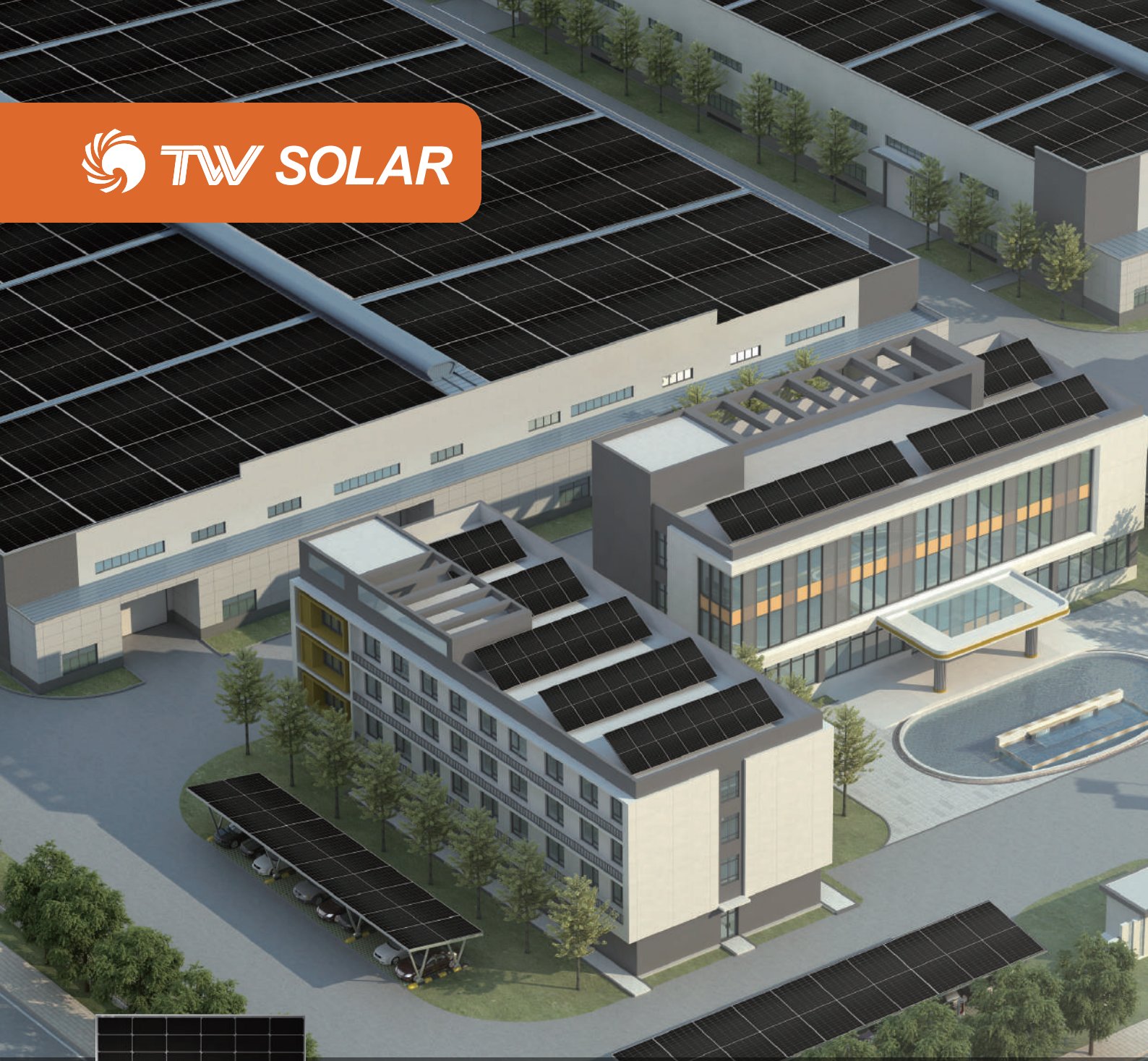
TW SOLAR





High Power Output
Low LCOE

Maximum Power
590W+

TWMND

N-type Half-cell Monofacial Module (72)

72HS570-590W

TIER 1 Bloomberg NEW ENERGY FINANCE

Commercial Rooftop

Utility-scale PV Plants

12 YEAR Materials Warranty

30 YEAR Power Warranty

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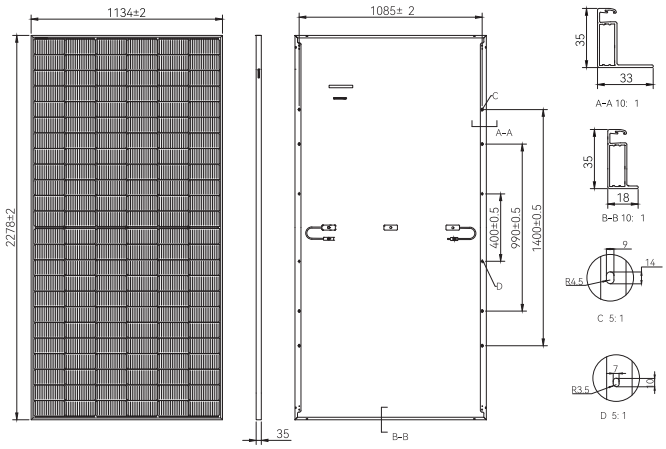
Learn More

TWMND N-type Half-cell Monofacial Module (72)

72HS570-590W

DRAWINGS (Unit: mm)



MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6X24]
Dimension	2278±2X1134±2X35mm
Weight	27.0kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm²
Cable Length	+400mm, -200mm or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMND-72HSXXX					
Maximum Power: Pmax [W]	570	575	580	585	590
Open Circuit Voltage: Voc [V]	52.40	52.60	52.80	53.00	53.20
Short Circuit Current: Isc [A]	13.42	13.46	13.50	13.54	13.58
Voltage at Maximum Power: Vmp [V]	44.63	44.83	45.03	45.23	45.43
Current at Maximum Power: Imp [A]	12.78	12.83	12.90	12.94	13.00
Module Efficiency: η [%]	22.1	22.3	22.5	22.6	22.8

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	431.4	435.2	438.9	442.7	446.5
Open Circuit Voltage: Voc [V]	49.80	50.03	50.22	50.41	50.60
Short Circuit Current: Isc [A]	10.56	10.59	10.63	10.66	10.69
Voltage at Maximum Power: Vmp [V]	42.87	43.15	43.34	43.54	43.73
Current at Maximum Power: Imp [A]	10.06	10.08	10.12	10.16	10.21

* STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass1.5, Measuring Tolerance: ±3%
* NMOT: Irradiance 800W/m², Ambient Temperature 20℃, Air Mass1.5, Wind Speed 1m/s

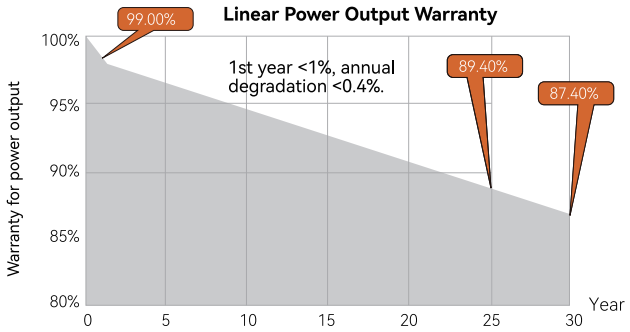
TEMPERATURE PARAMETERS

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

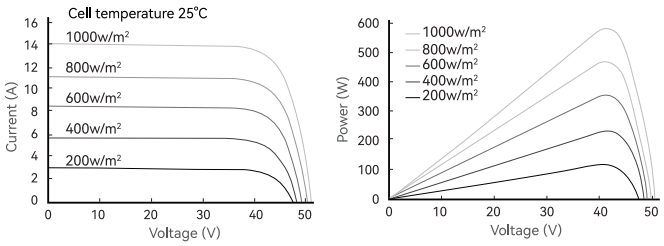
MAXIMUM RATINGS

Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0~+5W

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)

CE (Europe) CQC(China) TÜV NORD MCS (UK) KS (Korea) INMETRO (Brazil) JPEA (Japan) CEC (Australia) CSI (Italy)

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Statement: With technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar. (20240122)