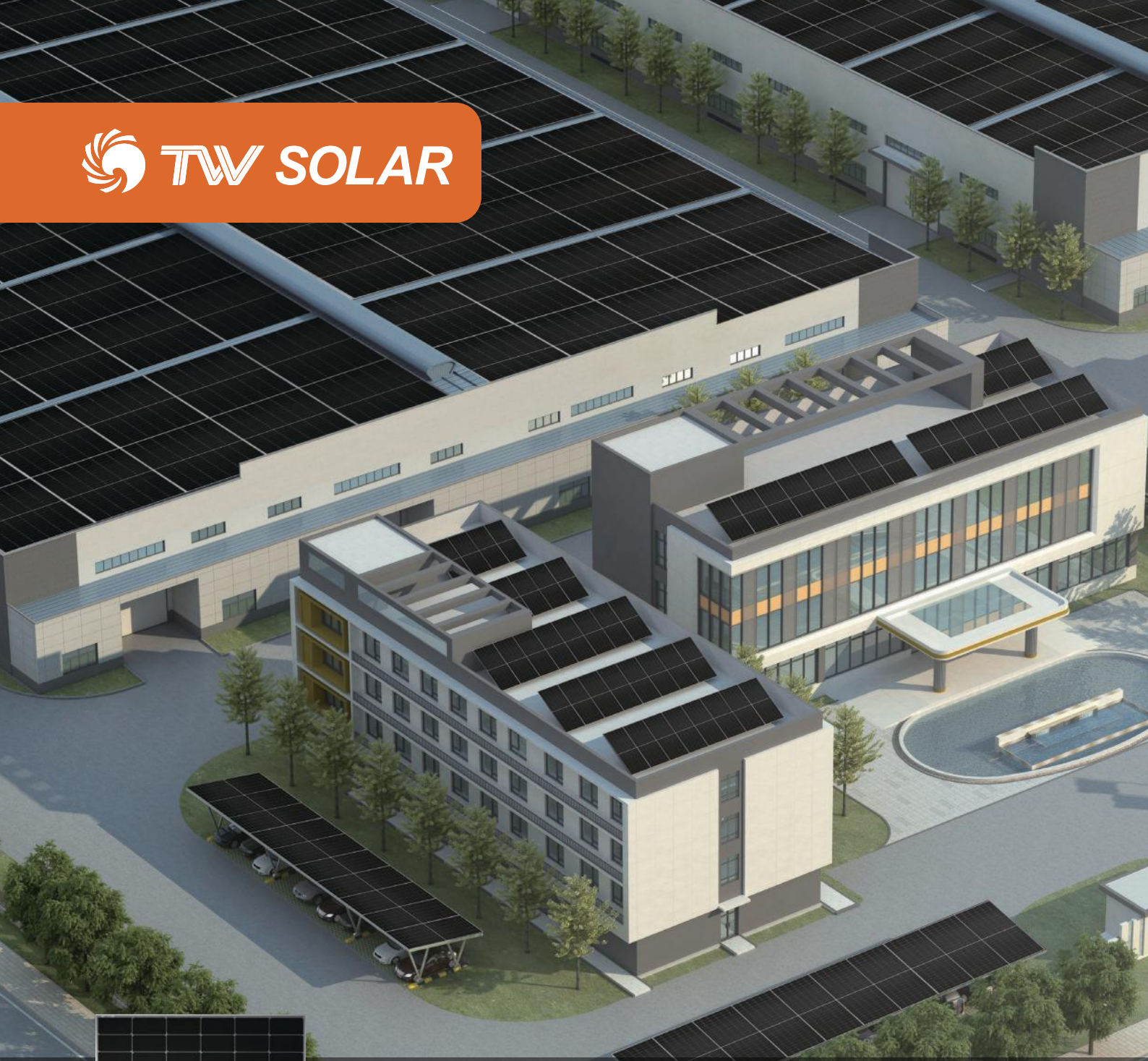
TW SOLAR





High Power Output
Low LCOE

Maximum Power
585W+

TWMND

N-type Half-cell
Bifacial Module (72)

72HD565-585W

TIER 1 Bloomberg NEW ENERGY FINANCE

Commercial Rooftop

Utility-scale PV Plants

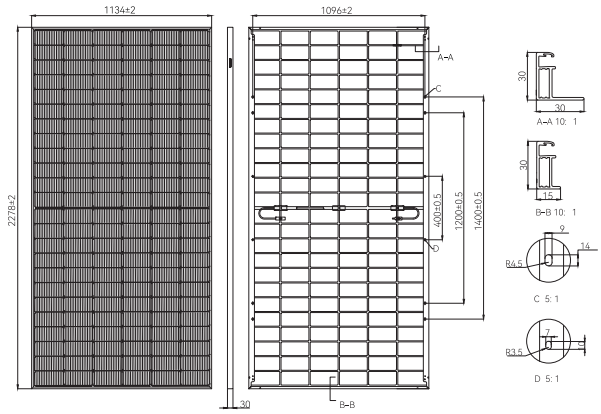
12 YEAR Materials Warranty

30 YEAR Power Warranty

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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMND-72HDXXX					
Maximum Power: Pmax [W]	565	570	575	580	585
Open Circuit Voltage: Voc [V]	51.04	51.24	51.44	51.64	51.84
Short Circuit Current: Isc [A]	14.17	14.21	14.25	14.29	14.33
Voltage at Maximum Power: Vmp [V]	42.68	42.88	43.08	43.28	43.48
Current at Maximum Power: Imp [A]	13.24	13.29	13.35	13.40	13.46
Module Efficiency: η [%]	21.9	22.1	22.3	22.5	22.6

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	424.8	428.6	432.4	436.1	439.9
Open Circuit Voltage: Voc [V]	48.48	48.67	48.86	49.05	49.24
Short Circuit Current: Isc [A]	11.47	11.52	11.56	11.60	11.63
Voltage at Maximum Power: Vmp [V]	39.89	39.95	40.00	40.19	40.37
Current at Maximum Power: Imp [A]	10.63	10.70	10.78	10.85	10.90

* 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

ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: Pmax[W]	593.3	598.5	603.8	609.0	614.3
	Module Efficiency: η [%]	23.0	23.2	23.4	23.6	23.8
15%	Maximum Power: Pmax[W]	649.8	655.5	661.3	667.0	672.8
	Module Efficiency: η [%]	25.2	25.4	25.6	25.8	26.0
25%	Maximum Power: Pmax[W]	706.3	712.5	718.8	725.0	731.3
	Module Efficiency: η [%]	27.3	27.6	27.8	28.1	28.3

TEMPERATURE PARAMETERS

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

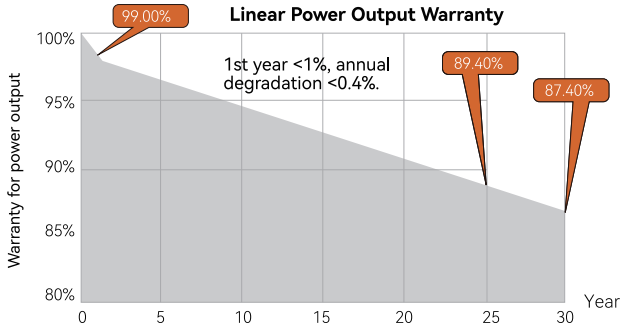
MAXIMUM RATINGS

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

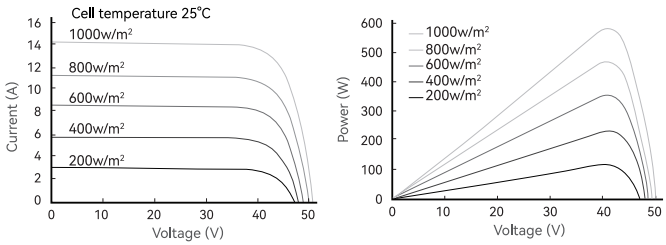
MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6X24]
Dimension	2278±2X1134±2X30mm
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	4.0mm²
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)

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)