



High Power Output
Low LCOE

Maximum Power
585W+

TW MND

N-type Half-cell Bifacial Module (72)

72HD565-585W

www.tw-solar.com

12 YEAR Materials Warranty

30 YEAR Power Warranty

Commercial Rooftop

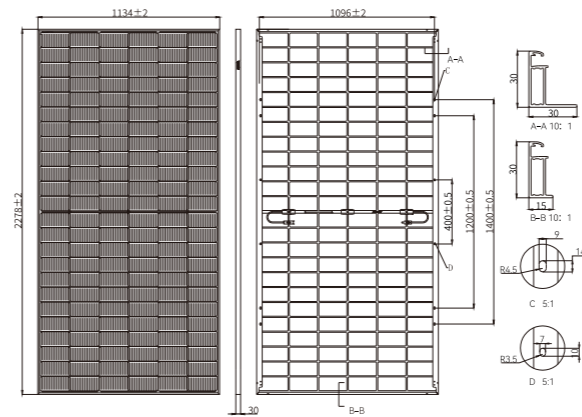
Utility-scale PV Plants



TW MND N-type Half-cell Bifacial Module (72)

72HD565-585W

DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TW MND-72HDXXX	565	570	575	580	585
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°C, Air Mass 1.5, Measuring Tolerance: ±3%
* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, 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%/°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~+5W
Maximum Bifaciality	80±5%

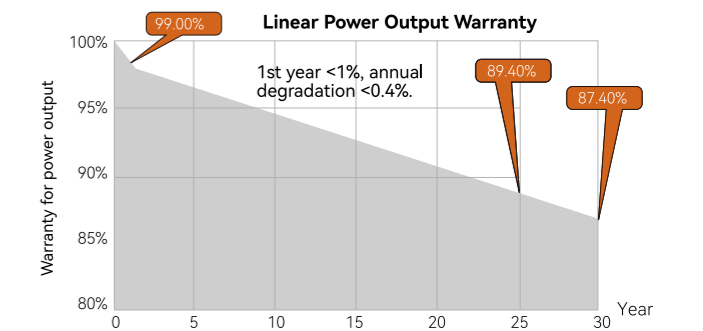
Email: sales@tongwei.com Website: www.tongwei.com.cn Add: No.588, Middle Section Tianfu Avenue, High-Tech Zone, Chengdu, China (Sichuan) Pilot Free Trade Zone

Declaration: With the technical progress and product updates, there exists a deviation between the technical parameter of the Tongwei Solar's future products and the technical parameter in this specification. The Tongwei Solar reserves the right to adjust the technical parameter at any time without notifying the customers. Tongwei Solar reserves the final right of interpretation.

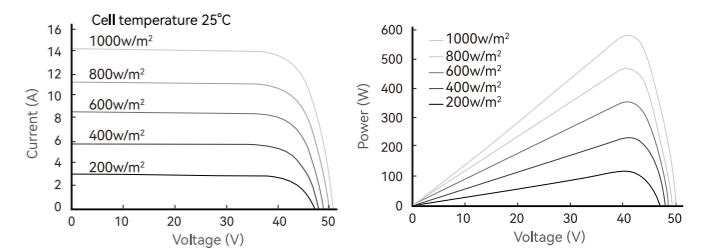
MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6X24]
Dimension	2278±2X1134±2X30mm
Weight	31.5kg
Front Glass	2.0mm high transmittance, AR coated 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 50001:2011 / energy management system
- IEC TS 62941—2016 / PV industry quality management system
- IEC 61215/61730, IEC 62804(PID), IEC 61701(Salt), IEC 62716 (Ammonia), IEC 60068-2-68(Sand)

