

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

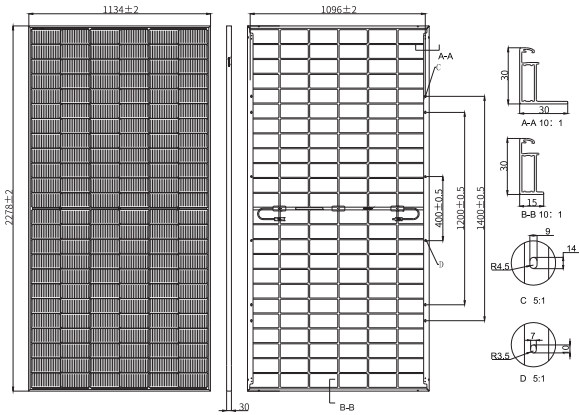
**30**  
YEAR  
Power  
Warranty

[www.tw-solar.com](http://www.tw-solar.com)



Learn More

**DRAWINGS (Unit: mm)**



**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	4.0mm <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]	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/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5, Measuring Tolerance: ±3%  
 \* NMOT: Irradiance 800W/m<sup>2</sup>, 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

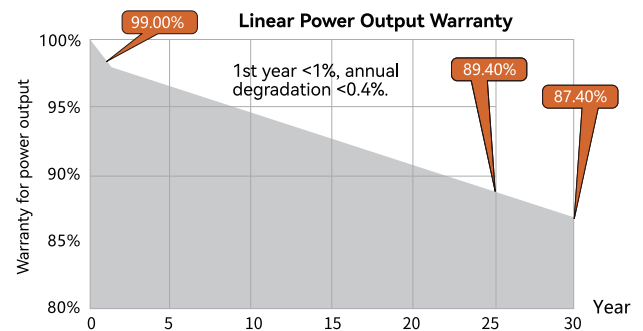
**TEMPERATURE PARAMETERS**

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

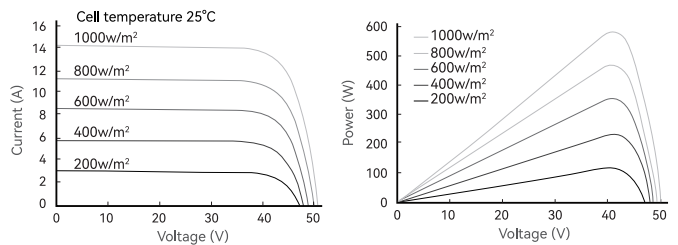
**MAXIMUM RATINGS**

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%

**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)



Email: sales@tongwei.com Website: www.tongwei.com.cn Add: 888 Changning Avenue, High-tech Zone, Hefei City, Anhui Province

Declaration: With the technical progress and product updates, there exists a deviation between the technical parameter of the TW Solar's future products and the technical parameter in this specification, The TW Solar reserves the right to adjust the technical parameter at any time without notifying the customers, TW Solar reserves the final right of interpretation. (20230802\_A2)