

High Power Output
Low LCOE



Maximum Power
590W+

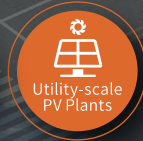


TWMND

N-type Half-cell
Monofacial Module (72)

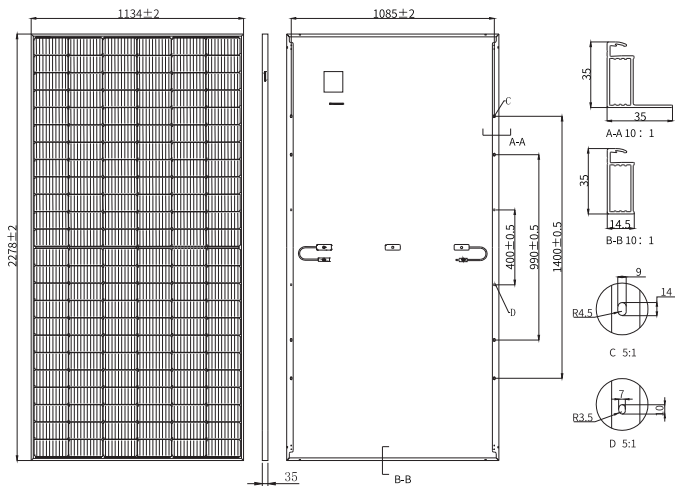
72HS570-590W

www.tw-solar.com



Learn More

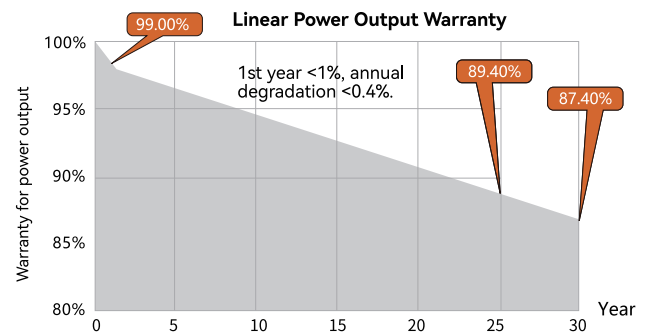
DRAWINGS (Unit: mm)



MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6X24]
Dimension	2278±2X1134±2X35mm
Weight	27.8kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm ²
Cable Length	+400mm, -200mm or ±1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs per 40'HC

WARRANTY



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°C, Air Mass1.5, Measuring Tolerance: ±3%
 * NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

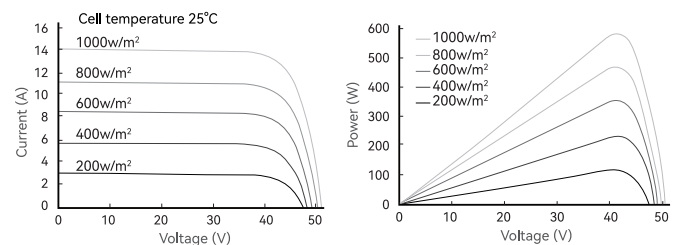
TEMPERATURE PARAMETERS

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	25A
Power Output Tolerance	0~+5W

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)



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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_1)