



TWMND

N-type Half-cell
Monofacial Module (72)

72HS570-590W

High Power Output
Low LCOE



Maximum Power
590W+



Commercial
Rooftop



Utility-scale
PV Plants

12
YEAR
Materials
Warranty

30
YEAR
Power
Warranty

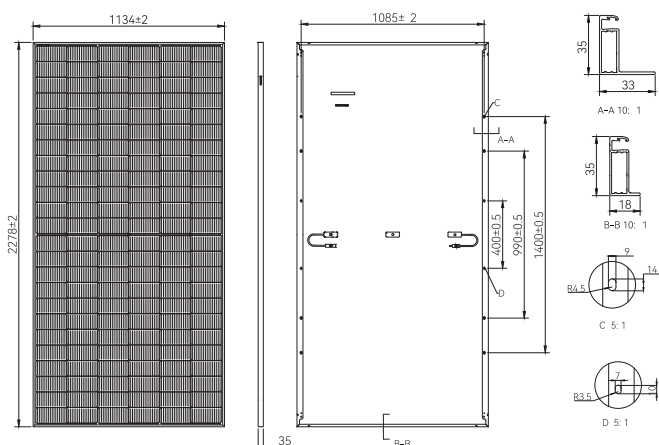


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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMND-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: $\pm 3\%$
* 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 $\pm$ 2°C

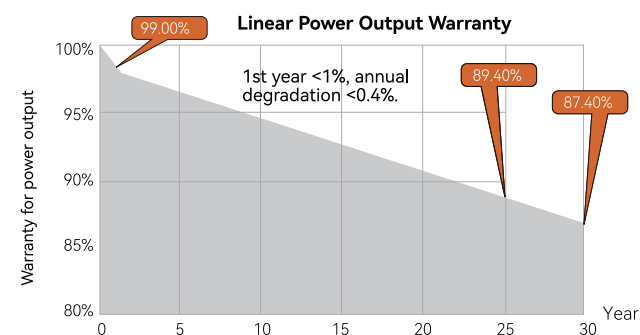
MAXIMUM RATINGS

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

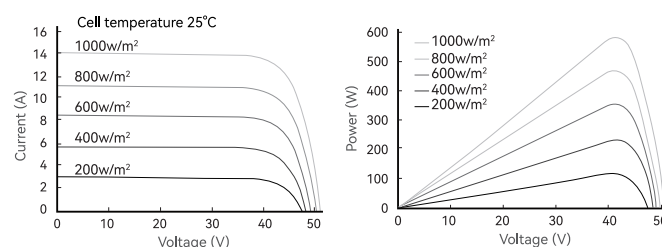
MECHANICAL PARAMETERS

Cells	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6X24]
Dimension	2278 $\pm$ 2X1134 $\pm$ 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	4.0mm ²
Cable Length	+400mm, -200mm or $\pm$ 1400mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	31pcs per pallet, 620pcs 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)

