

High Power Output
Low LCOE



Maximum Power
595W+



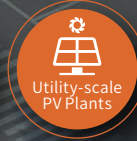
TWMND

N-type Half-cell
Monofacial Module (72)

72HS575-595W

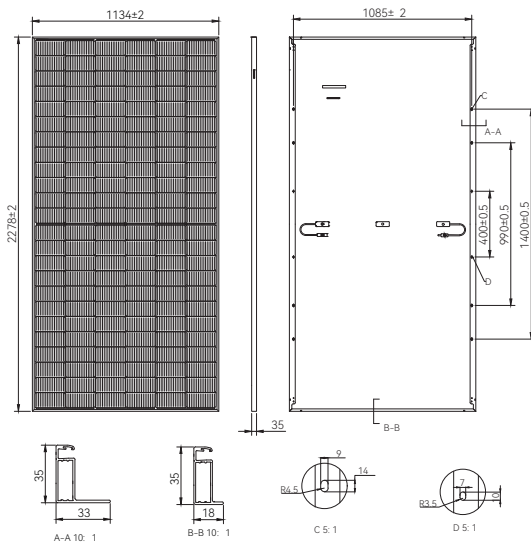


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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type:	TWMND-72 HS575	TWMND-72 HS580	TWMND-72 HS585	TWMND-72 HS590	TWMND-72 HS595
Maximum Power: Pmax [W]	575	580	585	590	595
Open Circuit Voltage: Voc [V]	52.60	52.80	53.00	53.20	53.40
Short Circuit Current: Isc [A]	13.46	13.50	13.54	13.58	13.95
Voltage at Maximum Power: Vmp [V]	44.83	45.03	45.23	45.43	45.60
Current at Maximum Power: Imp [A]	12.83	12.90	12.94	13.00	13.05
Module Efficiency: η [%]	22.3	22.5	22.6	22.8	23.0

* STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5, Power measurement tolerance: ±3%

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	435.2	438.9	442.7	446.5	450.3
Open Circuit Voltage: Voc [V]	50.03	50.22	50.41	50.60	50.79
Short Circuit Current: Isc [A]	10.59	10.63	10.66	10.69	10.98
Voltage at Maximum Power: Vmp [V]	43.15	43.34	43.54	43.73	43.89
Current at Maximum Power: Imp [A]	10.08	10.12	10.16	10.21	10.24

* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

TEMPERATURE RATING

Temperature Coefficient (Pmax)	-0.28%/°C
Temperature Coefficient (Voc)	-0.24%/°C
Temperature Coefficient (Isc)	+0.046%/°C
NMOT	45±2°C

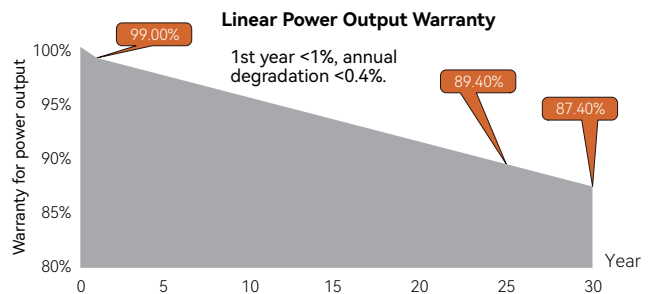
OPERATING PARAMETERS

Operating Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Selection Tolerance	0~+3%
Fire Class Rating	Class C

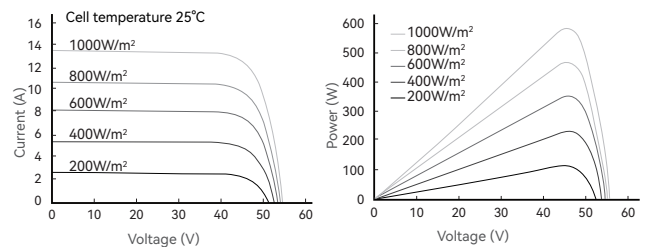
MECHANICAL PARAMETERS

Cell Type	TNC (N Type Monocrystalline Cell)
Cell Orientation	144[6×24]
Dimensions	2278±2×1134±2×35mm
Weight	27.0kg
Front Glass	3.2mm AR coated heat strengthened glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0mm ²
Cable length	+400mm, -200mm or ±1400mm, length can be customized
Connector	TW-PVCON-01(Tongwei Solar) PV-KST4-EVO2/xy_UR, PV-KBT4-EVO2/xy_UR(Stäubli) PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy(Stäubli) PV-ZH202B(Zhonghuan), PV-JK03M2/xy(Jinko)
Wind/Snow load	2400Pa/5400Pa
Per pallet	31pcs
Packaging	620pcs per 40'HC

WARRANTY



I-V CURVE



CERTIFICATIONS

Quality Management System and Product Certification

- ISO 9001: 2015 / Quality management systems
- ISO 14001: 2015 / Environmental management systems
- ISO 45001: 2018 / Occupational health and safety management systems
- ISO 50001: 2018 / Energy management systems
- IEC 62941: 2019 / Quality system for PV module manufacturing
- IEC 61215(2021) / IEC 61730(2023)

