

High Power Output
Low LCOE



Maximum Power
570W+



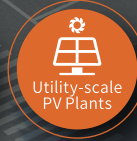
TWMPD

P-type Half-cell
Monofacial Module (72)

72HS550-570W

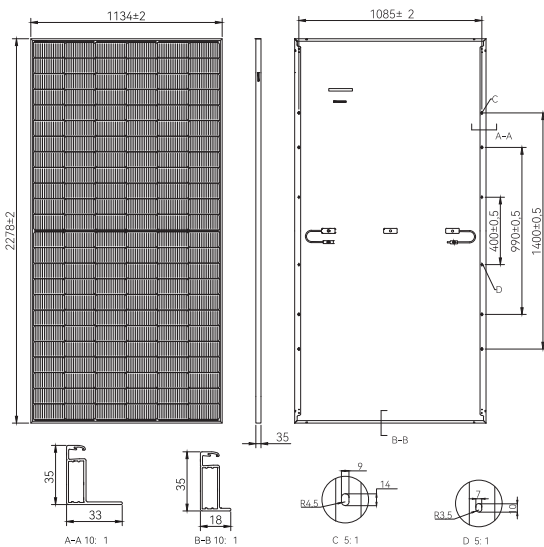


Tongwei Co.,Ltd.
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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type:	TWMPD-72 HS550	TWMPD-72 HS555	TWMPD-72 HS560	TWMPD-72 HS565	TWMPD-72 HS570
Maximum Power: Pmax [W]	550	555	560	565	570
Open Circuit Voltage: Voc [V]	49.91	50.11	50.31	50.51	50.71
Short Circuit Current: Isc [A]	13.92	13.96	14.00	14.04	14.08
Voltage at Maximum Power: Vmp [V]	41.25	41.45	41.65	41.85	42.05
Current at Maximum Power: Imp [A]	13.33	13.39	13.45	13.51	13.56
Module Efficiency: η [%]	21.3	21.5	21.7	21.9	22.1

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	416.2	420.0	423.8	427.6	431.4
Open Circuit Voltage: Voc [V]	47.40	47.62	47.85	48.04	48.23
Short Circuit Current: Isc [A]	10.97	10.99	11.02	11.05	11.08
Voltage at Maximum Power: Vmp [V]	39.55	39.82	40.09	40.28	40.48
Current at Maximum Power: Imp [A]	10.52	10.55	10.57	10.61	10.66

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

TEMPERATURE RATING

Temperature Coefficient (Pmax)	-0.33%/°C
Temperature Coefficient (Voc)	-0.27%/°C
Temperature Coefficient (Isc)	+0.05%/°C
NMOT	45±2°C

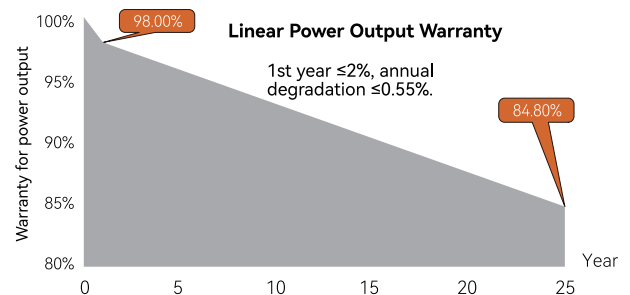
OPERATING PARAMETERS

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

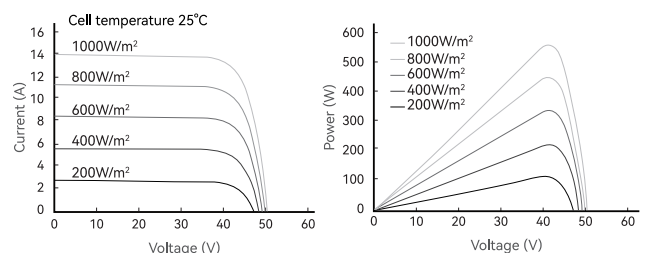
MECHANICAL PARAMETERS

Cell Type	TPC (P 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)

