

High Power Output
Low LCOE



Maximum Power
565W+



TWMPD

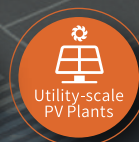
P-type Half-cell
Monofacial Module (72)

72HS545-565W

www.tw-solar.com



Commercial
Rooftop



Utility-scale
PV Plants



12
YEAR
Materials
Warranty

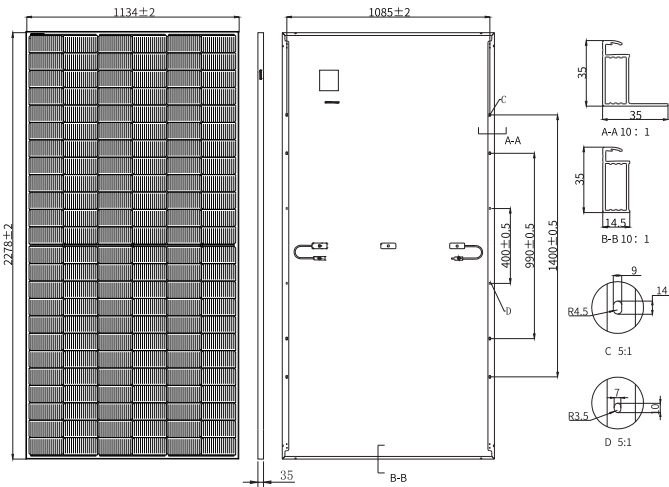


25
YEAR
Power
Warranty



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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMPD-72HSXXX					
Maximum Power: Pmax [W]	545	550	555	560	565
Open Circuit Voltage: Voc [V]	49.71	49.91	50.11	50.31	50.51
Short Circuit Current: Isc [A]	13.88	13.92	13.96	14.00	14.04
Voltage at Maximum Power: Vmp [V]	41.05	41.25	41.45	41.65	41.85
Current at Maximum Power: Imp [A]	13.28	13.33	13.39	13.45	13.51
Module Efficiency: η [%]	21.1	21.3	21.5	21.7	21.9

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	412.4	416.2	420.0	423.8	427.6
Open Circuit Voltage: Voc [V]	47.18	47.40	47.62	47.85	48.04
Short Circuit Current: Isc [A]	10.94	10.97	10.99	11.02	11.05
Voltage at Maximum Power: Vmp [V]	39.28	39.55	39.82	40.09	40.28
Current at Maximum Power: Imp [A]	10.50	10.52	10.55	10.57	10.61

* STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5, Measuring Tolerance: ±3%
* NMOT: Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

TEMPERATURE PARAMETERS

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

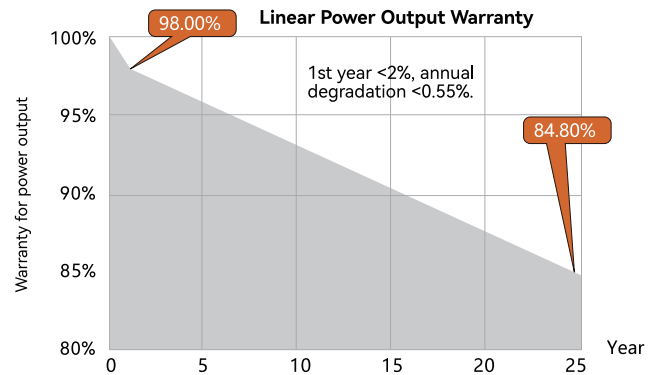
MAXIMUM RATINGS

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

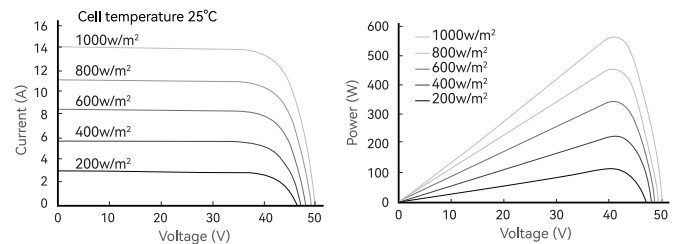
MECHANICAL PARAMETERS

Cells	TPC (P 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



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)

