



# TWMPD

P-type Half-cell  
Bifacial Module (72)

## 72HD540-560W

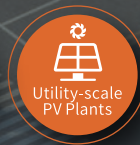
High Power Output  
Low LCOE



Maximum Power  
560W+



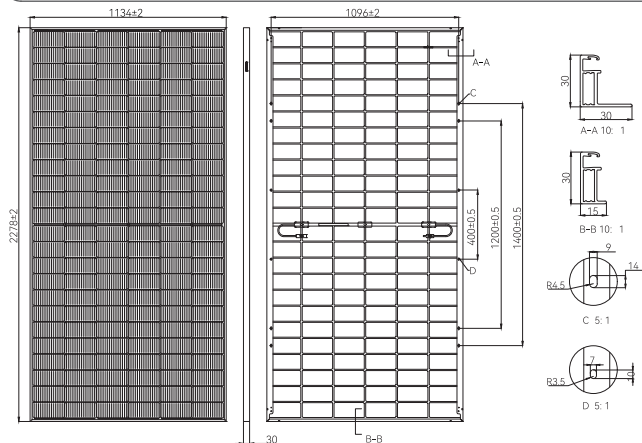
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## DRAWINGS (Unit: mm)



## ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMPD-72HDXXX

Maximum Power: Pmax [W]	540	545	550	555	560
Open Circuit Voltage: Voc [V]	49.70	49.90	50.10	50.30	50.50
Short Circuit Current: Isc [A]	13.78	13.83	13.88	13.93	13.98
Voltage at Maximum Power: Vmp [V]	41.56	41.76	41.96	42.16	42.36
Current at Maximum Power: Imp [A]	13.00	13.05	13.11	13.17	13.23
Module Efficiency: $\eta$ [%]	20.9	21.1	21.3	21.5	21.7

\* STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass1.5, Measuring Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	408.6	412.4	416.2	420.0	423.8
Open Circuit Voltage: Voc [V]	46.48	46.74	47.01	47.28	47.47
Short Circuit Current: Isc [A]	11.04	11.08	11.12	11.16	11.20
Voltage at Maximum Power: Vmp [V]	38.45	38.67	38.90	39.12	39.31
Current at Maximum Power: Imp [A]	10.62	10.66	10.70	10.74	10.79

\* NMOT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass1.5, Wind Speed 1m/s

## ELECTRICAL CHARACTERISTICS (Rear Power Gain)

5%	Maximum Power: Pmax[W]	567.0	572.3	577.5	582.8	588.0
	Module Efficiency: $\eta$ [%]	21.9	22.2	22.4	22.6	22.8
15%	Maximum Power: Pmax[W]	621.0	626.8	632.5	638.3	644.0
	Module Efficiency: $\eta$ [%]	24.0	24.3	24.5	24.7	24.9
25%	Maximum Power: Pmax[W]	675.0	681.3	687.5	693.8	700.0
	Module Efficiency: $\eta$ [%]	26.1	26.4	26.6	26.9	27.1

## TEMPERATURE PARAMETERS

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

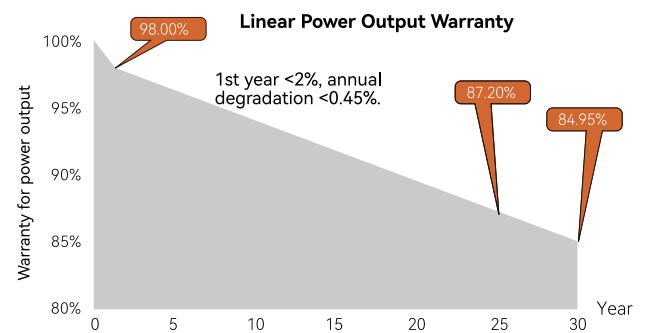
## MAXIMUM RATINGS

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+5W
Maximum Bifaciality	70±5%

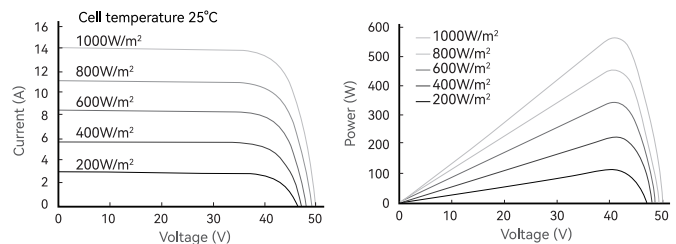
## MECHANICAL PARAMETERS

Cells	TPC (P Type Monocrystalline Cell)
Cell Orientation	144[6×24]
Dimension	2278±2×1134±2×30mm
Weight	31.5kg
Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm <sup>2</sup>
Cable Length	+400mm, -200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 720pcs 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)

