

NEUHEIT!

TONGWEI TWMPD-54HS 410W

SCHWARZE GERAHMTE SOLARMODULE

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SOLARMODUL EINZELHANDEL UND GROßHANDEL

PRIVATER SOLARMODULBAU

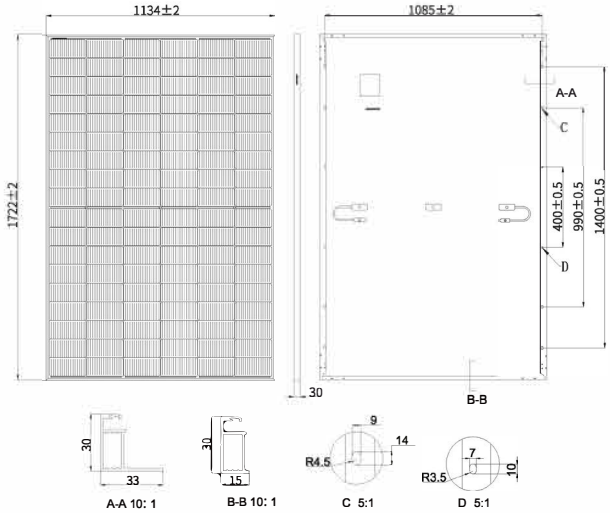
INDUSTRIELLER SOLARMODULBAU



TWMPD P-type Half-cell Monofacial Black Frame Module (54)

54HS400-420W

DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type: TWMPD-54HSXXX					
Maximum Power: Pmax [W]	400	405	410	415	420
Open Circuit Voltage: Voc [V]	37.08	37.23	37.38	37.53	37.68
Short Circuit Current: Isc [A]	13.77	13.87	13.92	13.95	13.98
Voltage at Maximum Power: Vmp [V]	30.58	30.73	30.88	31.03	31.18
Current at Maximum Power: Imp [A]	13.08	13.18	13.28	13.38	13.47
Module Efficiency: η [%]	20.5	20.7	21.0	21.3	21.5

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	302.8	306.6	310.3	314.1	317.9
Open Circuit Voltage: Voc [V]	34.72	34.86	35.00	35.15	35.29
Short Circuit Current: Isc [A]	10.82	10.90	10.97	11.05	11.12
Voltage at Maximum Power: Vmp [V]	28.76	28.90	29.04	29.18	29.32
Current at Maximum Power: Imp [A]	10.52	10.60	10.68	10.76	10.84

* STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass1.5, Measuring Tolerance: ±3%
* NMOT: Irradiance 800W/m², Ambient Temperature 20℃, Air Mass1.5, Wind Speed 1m/s

TEMPERATURE PARAMETERS

Temperature Coefficient (Pmax)	-0.34%/℃
Temperature Coefficient (Voc)	-0.27%/℃
Temperature Coefficient (Isc)	+0.045%/℃
NMOT	45±2℃

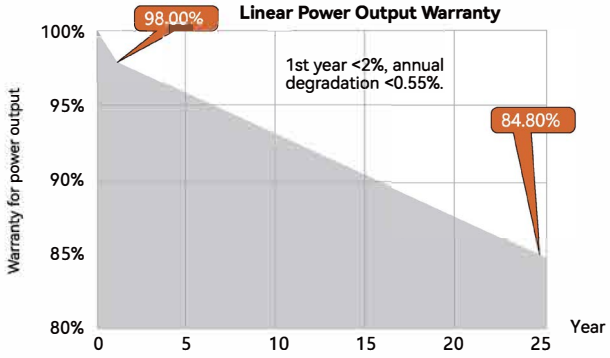
MAXIMUM RATINGS

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

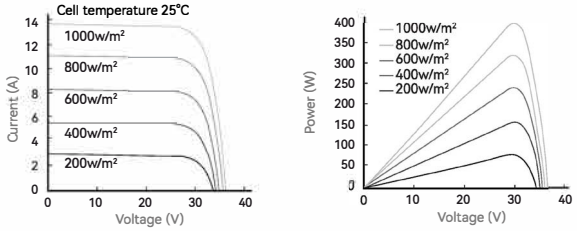
MECHANICAL PARAMETERS

Cells	TPC (P Type Monocrystalline Cell)
Cell Orientation	108[6X18]
Dimension	1722±2 X1134±2X30mm
Weight	20.5kg
Front Glass	3.2mm high transmittance, AR coated tempered glass
Backsheet	White
Frame	Anodized aluminum alloy black frame
Junction Box	IP68, 3 diodes
Output Cable	4.0mm²
Cable Length	+400mm, -200mm or ±1200mm, length can be customized
Wind/Snow Load	2400Pa/5400Pa
Packaging	36pcs per pallet, 936pcs 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)

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