



TWMND

N-type Half-cell
Monofacial Module (60)

60HS475-495W

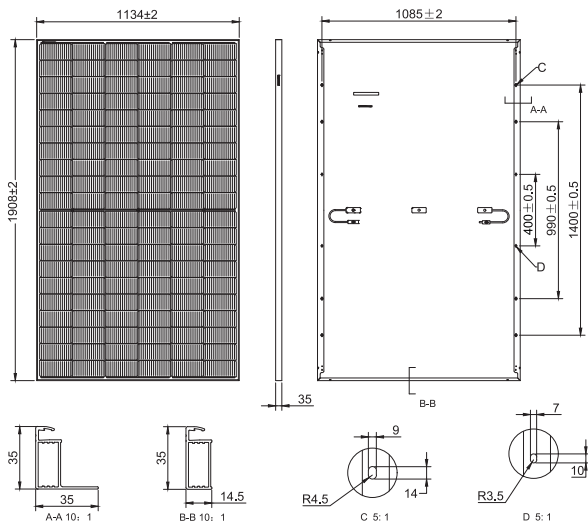


Tongwei Co.,Ltd.
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DRAWINGS (Unit: mm)



ELECTRICAL CHARACTERISTICS (STC)

Module Type:	TWMND-60 HS475	TWMND-60 HS480	TWMND-60 HS485	TWMND-60 HS490	TWMND-60 HS495
Maximum Power: Pmax [W]	475	480	485	490	495
Open Circuit Voltage: Voc [V]	43.51	43.68	43.85	44.02	44.19
Short Circuit Current: Isc [A]	13.60	13.65	13.70	13.75	13.82
Voltage at Maximum Power: Vmp [V]	36.96	37.13	37.30	37.47	37.65
Current at Maximum Power: Imp [A]	12.85	12.93	13.00	13.07	13.15
Module Efficiency: η [%]	22.0	22.2	22.4	22.6	22.9

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

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power: Pmax [W]	359.5	363.3	367.0	370.8	374.6
Open Circuit Voltage: Voc [V]	41.38	41.54	41.71	41.87	42.03
Short Circuit Current: Isc [A]	10.71	10.74	10.78	10.82	10.88
Voltage at Maximum Power: Vmp [V]	35.58	35.74	35.90	36.07	36.24
Current at Maximum Power: Imp [A]	10.09	10.15	10.20	10.26	10.32

* 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

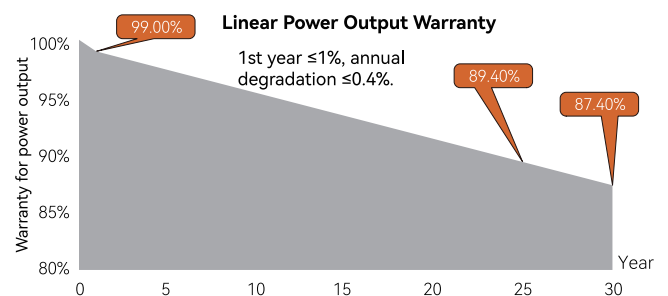
OPERATING PARAMETERS

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

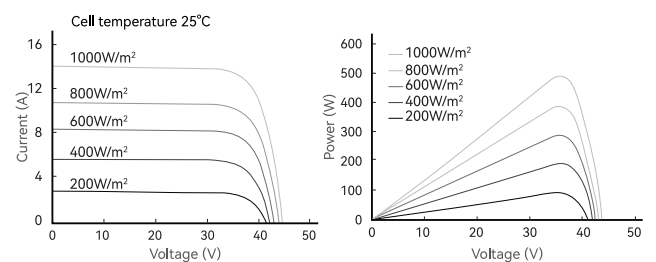
MECHANICAL PARAMETERS

Cell Type	TNC (N Type Monocrystalline Cell)
Cell Orientation	120[6×20]
Dimensions	1908±2×1134±2×35mm
Weight	23.2kg
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	+1200mm, -1200mm, 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	744pcs 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)

