



TWMNH

N-type Half-cell
Bifacial Module (66)

66HD605-630W

High Power Output
Low LCOE



Maximum Power
630W+



TIER 1
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NEW ENERGY FINANCE

Tongwei Co., Ltd.
<https://en.tongwei.cn/>

Commercial
Rooftop

Utility-scale
PV Plants

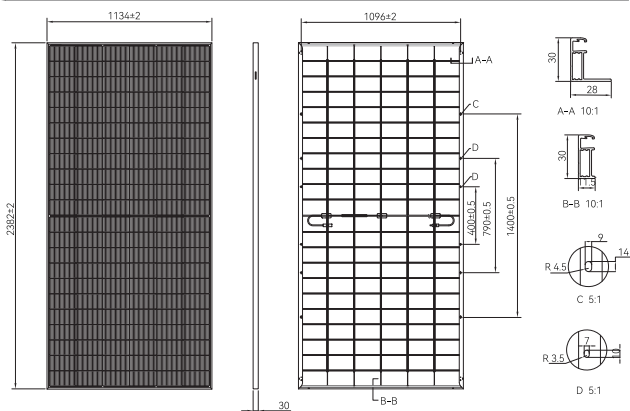
12
YEAR
Materials
Warranty

30
YEAR
Power
Warranty



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Drawings (Unit: mm)



Electrical characteristics (STC)

Model type:	TWMNH-66 HD605	TWMNH-66 HD610	TWMNH-66 HD615	TWMNH-66 HD620	TWMNH-66 HD625	TWMNH-66 HD630
Maximum Power: P _{max} [W]	605	610	615	620	625	630
Open Circuit Voltage: Voc [V]	48.50	48.70	48.90	49.10	49.30	49.50
Short Circuit Current: Isc [A]	15.88	15.94	16.00	16.06	16.12	16.18
Voltage at Maximum Power: V _{mp} [V]	40.31	40.48	40.65	40.82	40.96	41.10
Current at Maximum Power: Imp [A]	15.01	15.07	15.13	15.19	15.26	15.33
Module Efficiency: η [%]	22.4	22.6	22.8	23.0	23.1	23.3

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

Electrical characteristics (BNPI)

Maximum Power: P _{max} [W]	667.9	673.6	678.9	684.6	690.2	695.4
Open Circuit Voltage: Voc [V]	48.50	48.70	48.90	49.10	49.30	49.50
Short Circuit Current: Isc [A]	17.53	17.60	17.66	17.73	17.80	17.86
Voltage at Maximum Power: V _{mp} [V]	40.31	40.48	40.65	40.82	40.96	41.10
Current at Maximum Power: Imp [A]	16.57	16.64	16.70	16.77	16.85	16.92

* BNPI: Front side Irradiance 1000W/m², Back side irradiance 135W/m², Cell Temperature=25°C, AM=1.5, Power measurement tolerance: ±3%

Electrical characteristics with different rear side power gain

Maximum Power: P _{max} [W]	635	640	645	651	656	661
Module Efficiency: η [%]	23.5	23.7	23.9	24.1	24.3	24.5
Maximum Power: P _{max} [W]	695	701	707	713	718	724
Module Efficiency: η [%]	25.7	26.0	26.2	26.4	26.6	26.8
Maximum Power: P _{max} [W]	756	762	768	775	781	787
Module Efficiency: η [%]	28.0	28.2	28.4	28.7	28.9	29.1

Temperature rating

Temperature Coefficient of P _{max}	-0.28%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.046%/°C
NMOT	45±2°C

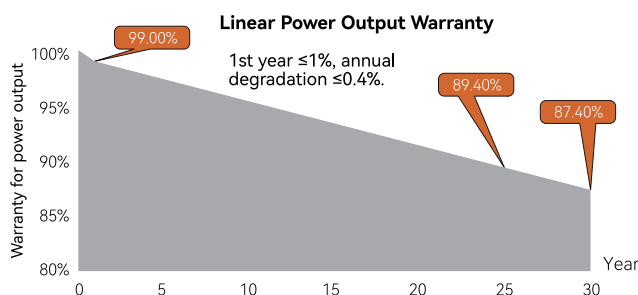
Operating parameters

Operating Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Selection Tolerance	0~+3%
Bifaciality coefficient of P _{max}	80±5%
Bifaciality coefficient of Voc	98±5%
Bifaciality coefficient of Isc	80±5%
Fire Class Rating	Class C

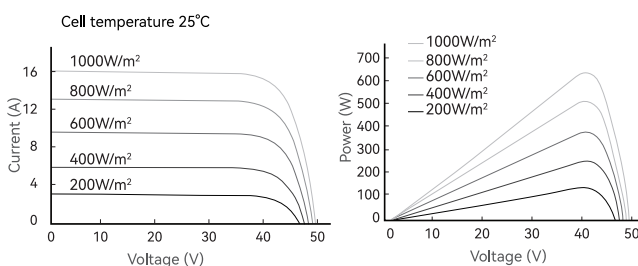
Mechanical parameters

Cell Type	TNC (N Type Monocrystalline Cell)
Cell Orientation	132[6×22]
Dimensions	2382±2×1134±2×30mm
Weight	32.5kg
Front Glass	2.0mm AR coated heat strengthened glass
Rear Glass	2.0mm heat strengthened glass
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3diodes
Cable	4.0mm ²
Cable length	+400mm, -200mm, 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	36pcs
Packaging	720pcs 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)

