

TNC-G12R-66 Half Cell Monofacial Module

Product Feature



High Power Output
Low LCOE



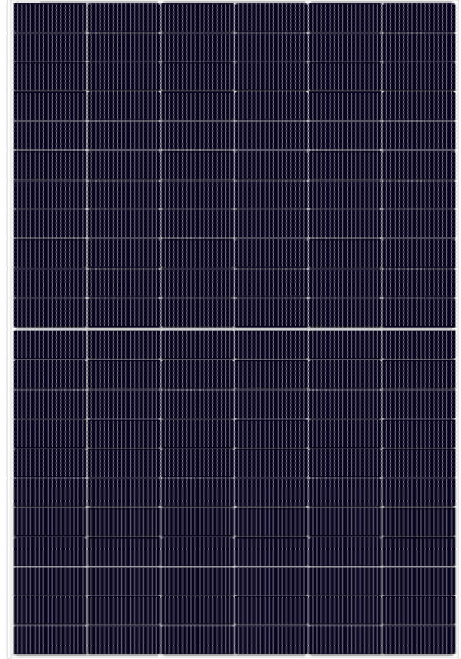
Maximum Power
up to 625W+



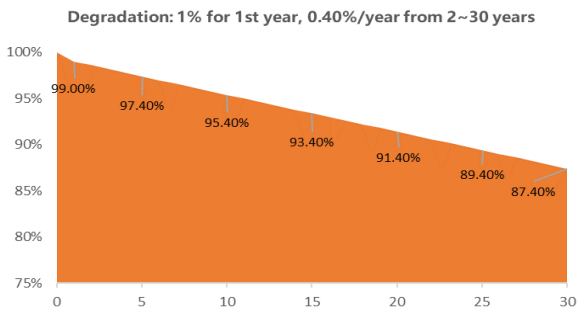
High Reliability



Low Degradation



Linear Warranty



Warranty for Material and



Warranty for Linear

Management System Certification

- ISO9001: 2015/Quality Management System
- ISO14001: 2015/Environmental Management System
- ISO45001: 2018/Occupational Health and Safety Management System
- IEC62941: 2019/Quality system for PV module manufacturing

Product Certification



Electrical Characteristics (STC)

Moduel type: TWMNH-66HS***

	605	610	615	620	625
Maximum Power: Pmax [W]	605	610	615	620	625
Open Circuit Voltage: Voc [V]	47.60	47.80	48.00	48.20	48.40
Short Circuit Current: Isc [A]	15.80	15.85	15.90	15.95	16.00
Voltage at Maximum Power: Vmp [V]	40.65	40.85	41.05	41.25	41.45
Current at Maximum Power: Imp [A]	14.89	14.94	14.99	15.04	15.08
Module Efficiency: η [%]	22.4	22.6	22.8	23.0	23.1

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5, Test Uncertainty: $\pm 3\%$

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	455	459	462	466	470
Open Circuit Voltage: Voc [V]	45.22	45.41	45.60	45.79	45.98
Short Circuit Current: Isc [A]	12.76	12.80	12.84	12.88	12.92
Voltage at Maximum Power: Vmp [V]	37.86	38.06	38.19	38.39	38.62
Current at Maximum Power: Imp [A]	12.02	12.06	12.10	12.14	12.17

NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s

Mechanical Parameters

Cell Type	TNC
Cell Orientation	132[6×22]
Dimensions	2382±2×1134±2×35mm
Weight	29.0 kg
Front Glass	3.2 mm AR coated heat strengthened glass
Backsheet	White
Frame	Anodized aluminum alloy frame
Junction Box	IP68, 3 diodes
Cable	4.0 mm ²
Cable length	+400mm,-200mm or ± 1400 mm,length can be customized
Wind/Snow load	2400Pa/5400Pa
Per pallet	31 pcs
Packaging	620 pcs per 40'HC,620 pcs per 13m flatbed trailer,868 pcs per 17.5m flatbed trailer
Fire class rating	Class C

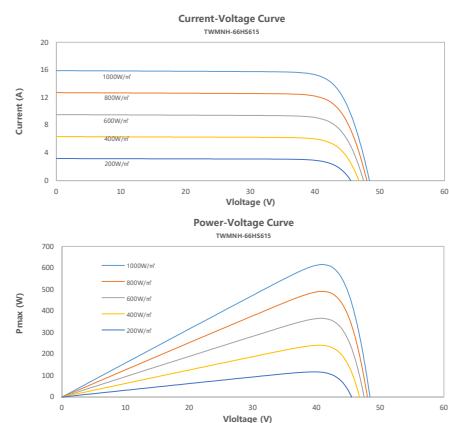
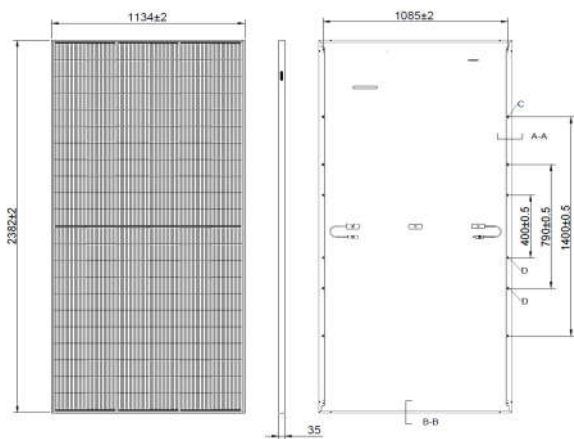
Temperature rating

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
NMOT	45±2°C

Operating Parameters

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0~+3%

Drawing(Unit:mm)



Statement: with technological process and product update, there maybe deviation between the technical parameters of Tongwei's module products and the technical parameters contained in the specification, and Tongwei Solar has the right to adjust the technical parameters at any time without notifying the customer, the final interpretation of the technical specification is vested in Tongwei Solar.

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Cable Type

Changshu JHOSIN Communication Technology Co., Ltd.

Jiangsu Tongling Electric Co., Ltd.

Ningbo Kibor Wire & Cable Co., Ltd.

QC Solar (Suzhou) Corporation

Suzhou Baohing Electric Wire & Cable Manufacturer Co., Ltd.

Suzhou Xietong Photovoltaic Technology Co., Ltd.

SUZHOU YONGHAO CABLE CO LTD

Tongwei Solar (Hefei) Co., Ltd.

Trina Solar Co., Ltd.

Wuxi Xinhongye Wire & Cable Co., LTD.

Zhejiang Chuangyuan Photovoltaic Technology Co.,Ltd.

Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.

Zhejiang Renhe Photovoltaic Technology Co., Ltd.

Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.

Connector type

05-8, Zhejiang Renhe Photovoltaic Technology Co., Ltd.

BIGabc4efgh, Trina Solar Co., Ltd.

H4Cabcdef, Amphenol Technology (Shenzhen) Co., Ltd.

H4CFC4DMS,H4CMC4DMS, Amphenol Technology (Shenzhen) Co., Ltd.

HQC4, Hanwha Q CELLS (Qidong) Co., Ltd

PV4-S1yx, Tyco Electronics (Shanghai) Co., Ltd.

PV4-S1yx, Tyco Electronics Austria GmbH

PV-CF-C-2,5-4-SETxxxx, PV-CM-C-2,5-4-SETxxxx, Phoenix Contact GmbH & Co.KG

PV-CO02-xy, SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD

PV-CY03L, Zhejiang Chuangyuan Photovoltaic Technology Co.,Ltd.

PV-CY20L, Zhejiang Chuangyuan Photovoltaic Technology Co.,Ltd.

PV-JK03M-2, Jiangxi Jinko PV Material Co., Ltd.

PV-JK03M-2/xy, Jiangxi Jinko PV Material Co., Ltd.

PV-JM601A, Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.

PV-JM608, Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.

PV-KST4-EVO2/xy_UR , PV-KBT4-EVO2/xy_UR, Stäubli Electrical Connectors AG

PV-KST4-EVO2A/xy, PV-KBT4 EVO2A/xy, Stäubli Electrical Connectors AG

PV-MH5, Ningbo Minghe New Energy Technology Co., Ltd.

PV-XT101.1, Suzhou Xietong Photovoltaic Technology Co., Ltd.

PV-ZH202B, Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.

QC4.10-cds, QC Solar (Suzhou) Corporation

RHC2xyzu, Zhejiang Renhe Photovoltaic Technology Co., Ltd.

TL-CABLE01S-F, TL-CABLE01S, Jiangsu Tongling Electric Co., Ltd.

TS4, Trina Solar Co., Ltd.

TS4-xz, Trina Solar Co., Ltd.

TW-PVCON-01, Tongwei Solar (Hefei) Co., Ltd.

UTXCfabcd, UTXCMabcd, Amphenol Technology (Shenzhen) Co., Ltd.

Z4S-abcd, Zerun Co., LTD.