

# M10-72-TNC Half Cell Monofacial Module

## Product Feature



High Power Output  
Low LCOE



Maximum Power  
up to 595W+



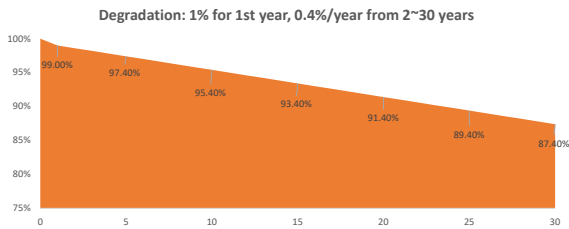
High Reliability



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: TWMND-72HS***			
Maximum Power: Pmax [W]	575	580	585
Open Circuit Voltage: Voc [V]	52.60	52.80	53.00
Short Circuit Current: Isc [A]	13.46	13.50	13.54
Voltage at Maximum Power: Vmp [V]	44.83	45.03	45.23
Current at Maximum Power: Imp [A]	12.83	12.90	12.94
Module Efficiency: $\eta$ [%]	22.3	22.5	22.6
STC: Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, AM=1.5, Test Uncertainty: $\pm$ 3%			

### Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	435.2	438.9	442.7
Open Circuit Voltage: Voc [V]	50.03	50.22	50.41
Short Circuit Current: Isc [A]	10.59	10.63	10.66
Voltage at Maximum Power: Vmp [V]	43.15	43.34	43.54
Current at Maximum Power: Imp [A]	10.08	10.12	10.16
NMOT: Irradiance 800W/m <sup>2</sup> , Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s			

### Mechanical Parameters

Cell Type	TNC
Cell Orientation	144[6×24]
Dimensions	2278±2×1134±2×35mm
Weight	27.0 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 <sup>2</sup>
Cable length	+400mm,-200mm or $\pm$ 1400mm,length can be customized
Wind/Snow load	2400Pa/5400Pa
Per pallet	31 pcs
Packaging	620 pcs per 40'HC,682 pcs per 13m flatbed trailer,930 pcs per 17.5m flatbed trailer
Fire safety class:	Class C

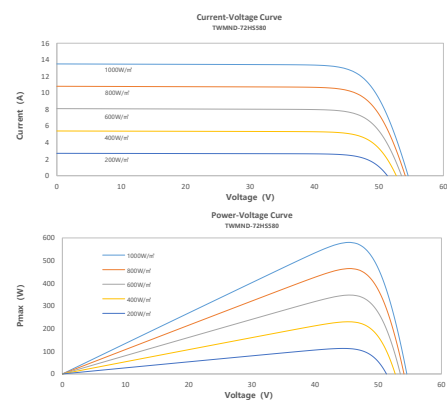
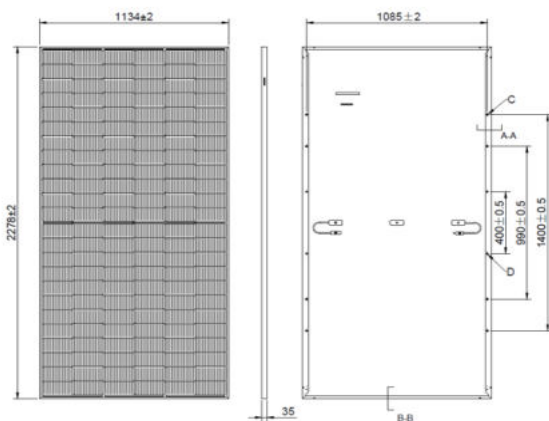
### Temperature rating

Temperature Coefficient of Pmax	-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~+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.

## 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.