TW SOLAR

182PERC-Half-cell Mono-facial Module(72)

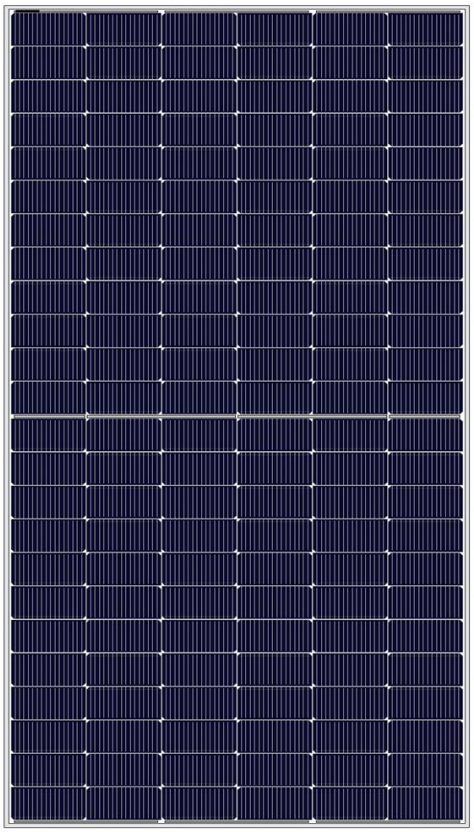
Product Feature

High Power Output
Low LCOE

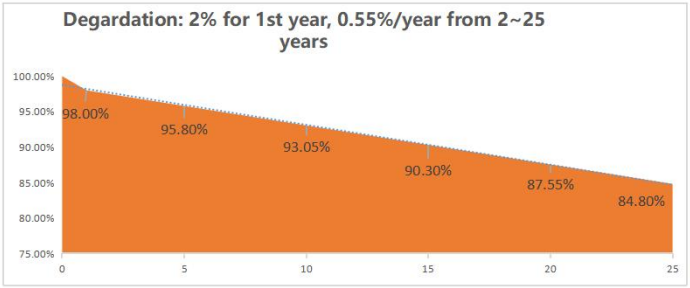
Maximum Power
up to 560W

High Reliability

Low Degradation



Linear Warranty



12 year — Warranty for Material and Processing

25 year — Warranty for Linear Power output

Management System certification

ISO9001: 2015/Quality Management System
ISO14001: 2015/Environmental Management System
ISO45001: 2018/Occupational Health and Safety Management System

Product certification

Tongwei Solar (Hefei) Co., Ltd
Made in China

TW SOLAR

Electrical Characteristics (STC)				
Moduel type：TWMPD-72HS***				
Maximum Power：Pmax [W]	545	550	555	560
Open Circuit Voltage：Voc [V]	49.71	49.91	50.11	50.31
Short Circuit Current：Isc [A]	13.88	13.92	13.96	14.00
Voltage at Maximum Power：Vmp [V]	41.05	41.25	41.45	41.65
Current at Maximum Power：Imp [A]	13.28	13.33	13.39	13.45
Module Efficiency：η [%]	21.1	21.3	21.5	21.7
STC：Irradiance 1000W/㎡，Cell Temperature 25℃，AM=1.5，Test Uncertainty: ±3%				

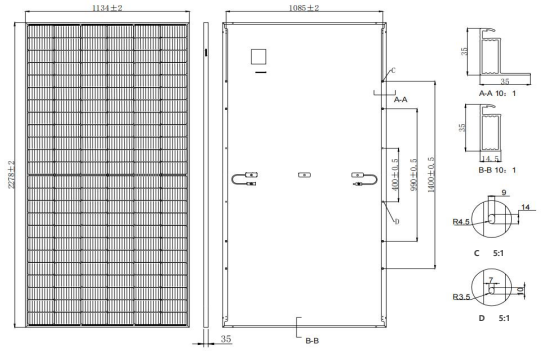
Temperature rating	
Temperature Coefficient of Pmax	-0.34%/℃
Temperature Coefficient of Voc	-0.27%/℃
Temperature Coefficient of Isc	+0.045%/℃
NMOT	45±2℃

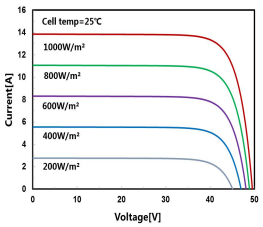
Electrical Characteristics (NMOT)				
Maximum Power：Pmax [W]	412.4	416.2	420.0	423.8
Open Circuit Voltage：Voc [V]	47.18	47.40	47.62	47.85
Short Circuit Current：Isc [A]	10.94	10.97	10.99	11.02
Voltage at Maximum Power：Vmp [V]	39.28	39.55	39.82	40.09
Current at Maximum Power：Imp [A]	10.50	10.52	10.55	10.57
NMOT：Irradiance 800W/㎡，Ambient Temperature 20℃，AM=1.5，Wind Speed 1m/s				

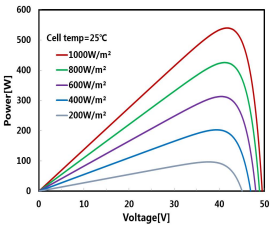
Operating Parameters	
Operating Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Power Output Tolerance	0~+5W

Mechnical Parameters	
Cell Type	P-PERC
Cell Orientation	144[6×24]
Dimensions	2278±2×1134±2×35mm
Weight	27.8 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	Positive: 400mm, Negitive: 200mm,length can be customized
Wind/Snow load	2400Pa/5400Pa
Per pallet	31 pcs
Packaging	620 pcs per 40'HC
Fire class rating	Class C

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

Zhejiang Renhe Photovoltaic Technology Co., Ltd.
Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.
Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd
Ningbo Kibor Wire&Cable Co., Ltd.
Wuxi Xinhongye Wire&Cable Co., Ltd.
Trina Solar Co., Ltd.
Changshu JHOSIN Communication Technology Co., Ltd.
SUZHOU YONGHAO CABLE CO LTD
QC Solar (Suzhou) Corporation
Suzhou Baohing Electric Wire & Cable Manufacturer Co., Ltd.
Jiangxi Jinko PV Material Co., Ltd.
Jiangxi Hejia Technology Co., Ltd.
YushanXinzhan Industrial Co., Ltd.
DONGGUAN XINBEISEN WIRE AND CABLE CO LTD
Jiangxi Han Guang Cable Co., Ltd.
RUIXU INDUSTRY CO., LTD.
Suzhou Xietong Photovoltaic Technology Co., Ltd.
Jiangsu Tongling Electric Co., Ltd.

Connector type

05-8, Zhejiang Renhe Photovoltaic 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
UTXCFabcd, UTXCMabcd, Amphenol Technology (Shenzhen) Co., Ltd.
RHC2xyzu, Zhejiang Renhe Photovoltaic Technology Co., Ltd.
PV-JM608，Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.
PV-JM601A，Zhejiang Jiaming Tianheyuan Photovoltaics Technology Co., Ltd.
PV4-S1yx，Tyco Electronics (Shanghai) Co., Ltd.
HQC4，Hanwha Q CELLS (Qidong) Co., Ltd
PV-CO02-xy，SUZHOU UKT NEW ENERGY TECHNOLOGY CO., LTD
TS4-xz ，Trina Solar Co., Ltd.
TS4，Trina Solar Co., Ltd.
H4Cabcdef，Amphenol Technology (Shenzhen) Co., Ltd.
PV-CF-C-2, 5-4-SETxxxx， PV-CM-C-2, 5-4-SETxxxx，Phoenix Contact GmbH & Co.KG
PV-ZH202B，Zhejiang Zhonghuan Sunter PV Technology Co., Ltd.
QC4.10-cds, QC Solar (Suzhou) Corporation
PV-MH5，Ningbo Minghe New Energy Technology Co., Ltd.
TL-CABLE01S-F，TL-CABLE01S，Jiangsu Tongling Electric Co., Ltd.
PV-KST4-EVO 2A/xy_UR; PV-KBT4-EVO 2A/xy_UR，Stäubli Electrical Connectors AG
PV-XT101.1，Suzhou Xietong Photovoltaic Technology Co., Ltd.
PV-JK03M-2, PV-JK03M/xy, PV-JK03M1/xy, PV-JK03M2/xy, Jiangxi Jinko PV Material Co., Ltd.
UTXCFabcde, UTXCMabcde, Amphenol Technology (Shenzhen) Co., Ltd.
TW-PVCON-01,Tongwei Solar (Hefei) Co., Ltd.