

210PERC-Half-cell Mono-facial Module(60)

Product Feature



High Power Output Low LCOE



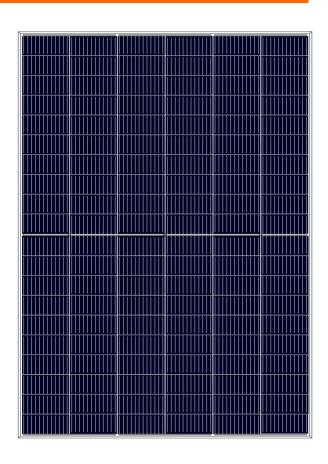
Maximum Power up to 610W+



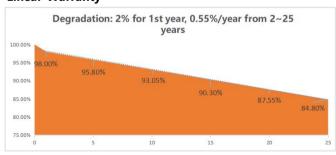
High Reliability



Low Degradation



Linear Warranty







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



Electrical Characteristics (STC)				
Moduel type: TWMPF-60HS***				
Maximum Power: Pmax [W]	600	605	610	
Open Circuit Voltage: Voc [V]	41.45	41.65	41.85	
Short Circuit Current: Isc [A]	18.55	18.61	18.66	
Voltage at Maximum Power: Vmp [V]	34.36	34.56	34.76	
Current at Maximum Power: Imp [A]	17.46	17.50	17.55	
Module Efficiency: η [%]	21.2	21.4	21.6	
STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5, Test Uncertainty: ±3%				

Temperature rating	
Temperature Coefficient of Pmax	-0.33%/℃
Temperature Coefficient of Voc	-0.27%/℃
Temperature Coefficient of	+0.050%/°C
NMOT	45±2℃

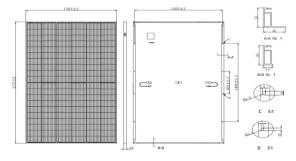
Electrical Characteristics (NMOT)				
Maximum Power: Pmax [W]	454.0	457.7	461.5	
Open Circuit Voltage: Voc [V]	39.05	39.24	39.43	
Short Circuit Current: Isc [A]	14.96	15.00	15.04	
Voltage at Maximum Power: Vmp [V]	32.06	32.25	32.43	
Current at Maximum Power: Imp [A]	14.16	14.19	14.23	

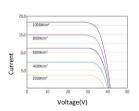
Operating Parameters	
Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Power Output Tolerance	0~+5W

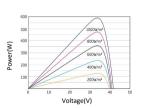
NMOT: Irradiance 800W/m², Ambient Temperature 20°C, AM=1.5, Wind Speed 1m/s $\,$

Mechnical Parameters	
Cell Type	P-PERC
Cell Orientation	120[6×20]
Dimensions	2172±2×1303±2×35mm
Weight	31 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	558 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.

Changshu JHOSIN Communication Technology Co., Ltd.

Jiangsu Tongling Electric Co., Ltd.

Zhejiang Chuangyuan Photovoltaic Technology Co.,Ltd.

Tongwei Solar (Hefei) 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.

H4CFC4DMS; H4CMC4DMS, Amphenol Technology (Shenzhen) 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

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

TS4-xz, Trina Solar Co., Ltd.

TS4, Trina Solar Co., Ltd.

Z4S-abcd, Zerun 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-CABLEO1S-F, TL-CABLEO1S, Jiangsu Tongling Electric Co., Ltd.

BIGabc4efgh, Trina Solar Co., Ltd.

PV-KST4-EVO 2A/xy UR; PV-KBT4-EVO 2A/xy UR, Stäubli Electrical Connectors AG



Connector type

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

PV-JK03M2/xy, Jiangxi Jinko PV Material Co., Ltd.

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

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

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