

Product Feature


High Power Output
Low LCOE



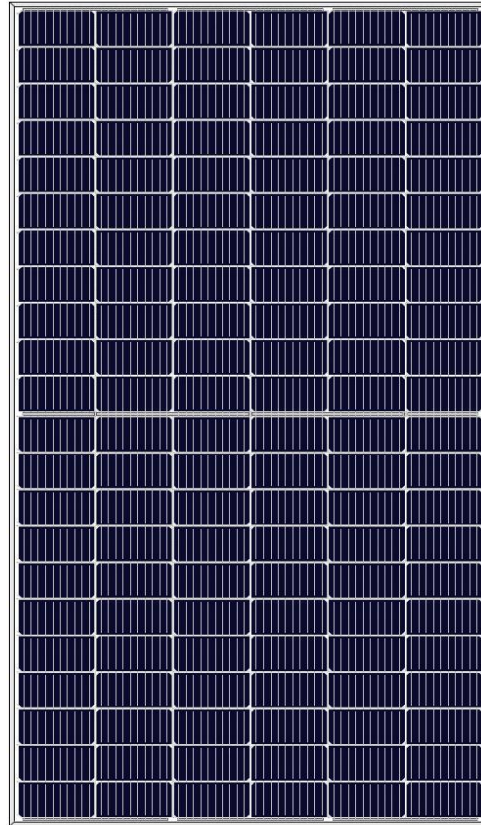
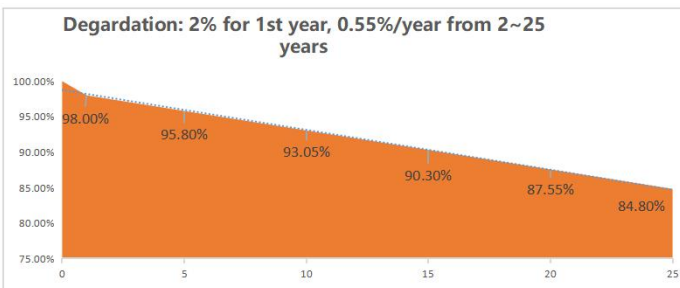
Maximum Power
up to 510W+



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


Electrical Characteristics (STC)

Module type: TW***MAP-132-H-S

Maximum Power: Pmax [W]	500	505
Open Circuit Voltage: Voc [V]	45.65	45.85
Short Circuit Current: Isc [A]	13.9	13.95
Voltage at Maximum Power: Vmp [V]	37.55	37.71
Current at Maximum Power: Imp [A]	13.32	13.39
Module Efficiency: η [%]	21.0	21.3

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

Electrical Characteristics (NMOT)

Maximum Power: Pmax [W]	378.4	382.2
Open Circuit Voltage: Voc [V]	43.35	43.57
Short Circuit Current: Isc [A]	10.95	10.98
Voltage at Maximum Power: Vmp [V]	36.00	36.23
Current at Maximum Power: Imp [A]	10.51	10.55

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

Mechanical Parameters

Cell Type	P-PERC
Cell Orientation	132[6×22]
Dimensions	2093±2×1134±2×35mm
Weight	25.4 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, Negative: 200mm,length can be customized
Wind/Snow load	2400Pa/5400Pa
Per pallet	31 pcs
Packaging	682 pcs per 40'HC
Fire class rating	Class C

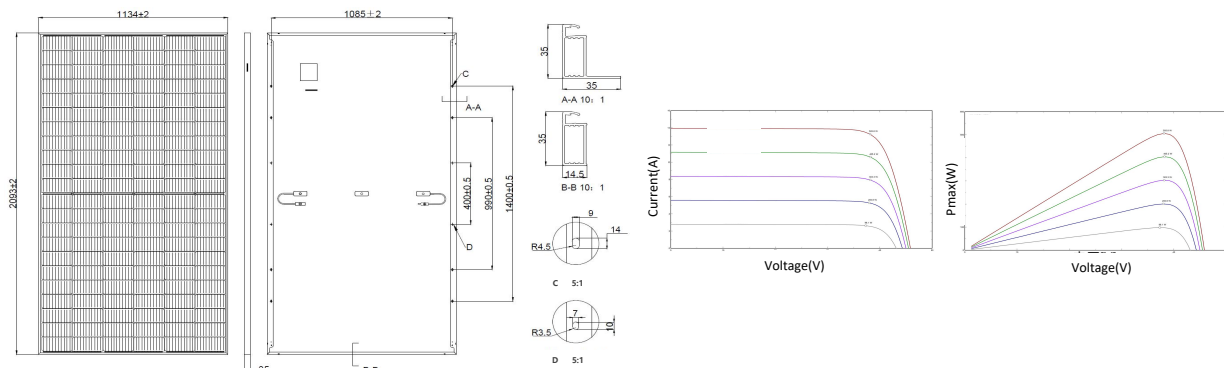
Temperature rating

Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.045%/°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~+5W

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.

Tongwei Solar (Hefei) Co., Ltd, Email: sales@tongwei.com, Web: www.tongwei.com.cn

Address: No.888, Changning Road, High-tech District, Hefei City, Anhui Province, 230088, P.R. China

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.

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.
H4Cabdef, 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.
BIGabc4efgh, Trina Solar 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-JK03M2/xy, Jiangxi Jinko PV Material Co., Ltd.
TW-PVCON-01, Tongwei Solar (Hefei) Co., Ltd.