Sun-Pursuit Pro Series

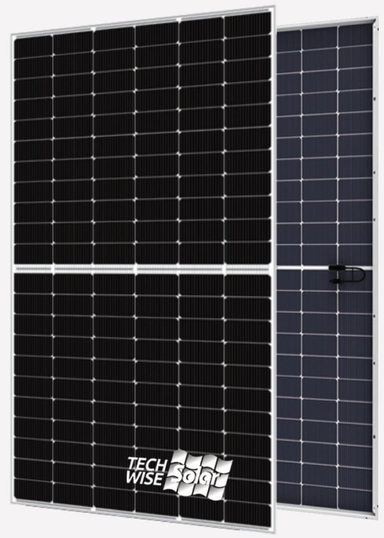
TOPCon Bifacial
132 - cell Module

TW-540HD-1

520-540W

0-3%Positive Tolerance

Monocrystalline | Half Cell | 16BB | Grade A



• MODULE FEATURES

High Efficiency
TOPCon technology improves efficiency, increases power generation, and contributes to lower LCOE.

Lower Heat Spot Risk
Innovative circuit design and "Half Cell" structure decrease the temperature of heat spots and effectively reduce power loss.

Excellent Low-light Performance
Reliable performance in low-light conditions such as in the morning,at dusk or during raining days.

Resilient to Extreme Weather
Carefully selected materials ensure the module still works well under the condition of 2400Pa wind load and 5400Pa snow load.

PID Resistant
High quality solar cell and advanced processing technology contribute to excellent PID resistance performance.

Double-sided electricity generation
Power can be generated on both sides to support additional ou tput gains of up to 25%. The multi-busbar half-cut technology can boost energy density to deliver higher output.

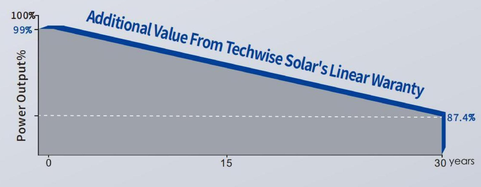
• Quality Certification

ISO

• Product Qualification

TÜV | CE | CQC

• Performance Warranty



15 Years Product Warranty

30 Years Linear Power Warranty

TECH WISE Solar
Building the Solar World with Technology & Wisdom

TW-540HD-1

•Product Specification•

Cell Type	Mono crystalline
Cell Quantity	132 cell
Cell Size(mm)	182*91
Module Size(mm)	2094*1134*30
Module Weight(kg)	30
Glass Thickness(mm)	2.0
Frame Material	Anodized aluminum alloy
Junction Box	IP68
Cable/Connector	4mm², MC4compatible
Cable Length	+300mm/-300mm;or Customize
Max System Volt(V)	1500V DC
Max Fuse Rate(A)	25
Power Tolerance(%)	0-+3%

•Electrical Characteristics•

STC standard performance >>>

Power Level	520	525	530	535	540
Pmax(W)	520	525	530	535	540
Vmp(V)	39.90	40.05	40.21	40.39	40.52
Imp(A)	13.02	13.12	13.19	13.26	13.34
Voc(V)	48.26	48.41	48.58	48.73	48.86
Isc(A)	13.83	13.94	14.01	14.08	14.16
Module Efficiency(%)	21.90	22.10	22.31	22.53	22.74

NOCT standard performance >>>

Power Level	520	525	530	535	540
Pmax(W)	388	392	396	399	403
Vmp(V)	36.41	36.54	36.69	36.84	36.98
Imp(A)	10.67	10.75	10.81	10.87	10.93
Voc(V)	45.33	45.45	45.61	45.76	45.90
Isc(A)	11.17	11.24	11.30	11.36	11.42

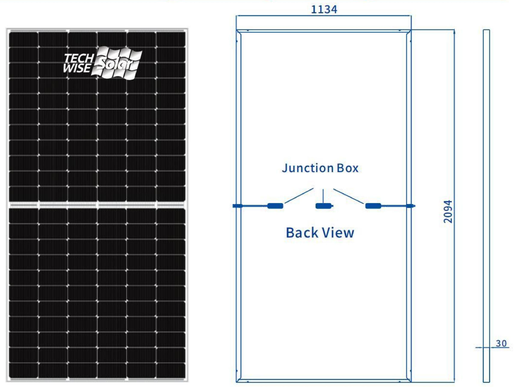
•Bifacial output-backside power gain•

5%Pmax(W)	546	551	557	562	567
5% Module Eiffciency	23.00	23.21	23.43	23.66	23.88
15% Pmax(W)	598	603	610	615	621
15% Module Eiffciency	25.18	25.42	25.67	25.91	26.15
25% Pmax(W)	650	656	662	669	675
25% Module Eiffciency	27.37	27.63	27.88	28.17	28.43

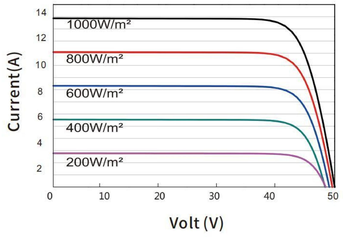
•Temperature Characteristics•

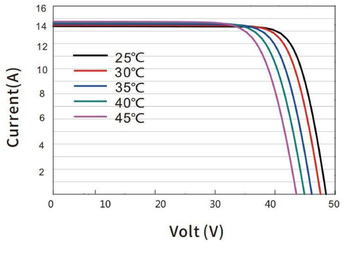
Operating Temp(℃)	-40~85
Operating Humidity(℃)	5~85
Hail Load Tolerance	25mm hailstone with velocity of 23m/s
Temp Coefficient	-0.340
Temp Coefficient Isc (%℃)	0.04
Temp Coefficient Voc (%℃)	-0.25
Operating Temp (℃)	44±2

•Engineering Drawings•



•I-V Curve•





•Packaging Info•

Pieces per Pallet	36
Size of Packaging(mm)	2120*1125*1270
Weight of per Pallet(kg)	1105
Pieces per Container	792
Size of Container	40'HC

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