

Sun-Pursuit Plus Series

TOPCon Bifacial
96 - cell Module

TW-450HT-02

430-450W

0-3%Positive Tolerance



Monocrystalline



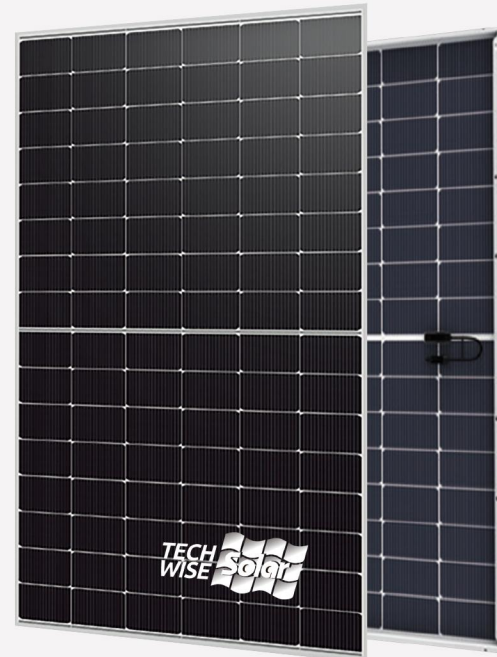
Half Cell



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 output gains of up to 25%. The multi-busbar half-cut technology can boost energy density to deliver higher output.

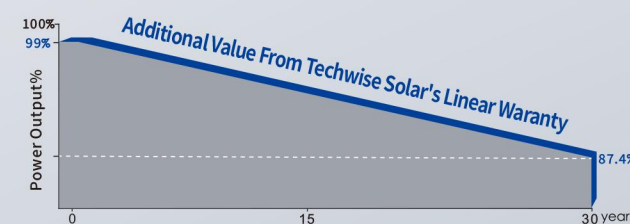
• Quality Certification



• Product Qualification



• Performance Warranty



15 15 Years Product Warranty

30 30 Years Linear Power Warranty

TW-450HT-02

•Product Specification•

Cell Type	Mono crystalline
Cell Quantity	96 cell
Cell Size (mm)	182*105
Module Size (mm)	1762*1134*30
Module Weight (kg)	25
Glass Thickness (mm)	2.0
Frame Material	Anodized aluminum alloy
Junction Box	IP68
Cable/Connector	4mm ² , MC4compatible
Cable Length	+300mm/-300mm; or Customize
Max System Volt(V)	1500V DC
Max Fuse Rate(A)	30
Power Tolerance	0~+3%
Refer.Bifacial Factor	80±10%

•Electrical Characteristics•

STC standard performance >>>

Power Level	430	435	440	445	450
Pmax(W)	430	435	440	445	450
Vmp(V)	28.84	29.08	29.31	29.55	29.78
Imp(A)	14.91	14.96	15.01	15.06	15.11
Voc(V)	34.93	35.20	35.47	35.75	36.02
Isc(A)	15.58	15.64	15.70	15.76	15.82
Module Efficiency(%)	21.52	21.77	22.02	22.27	22.52

NOCT standard performance >>>

Power Level	430	435	440	445	450
Pmax(W)	325	329	333	336	340
Vmp(V)	27.25	27.48	27.70	27.92	28.14
Imp(A)	11.93	11.97	12.01	12.05	12.09
Voc(V)	33.18	33.44	33.70	33.96	34.22
Isc(A)	12.47	12.51	12.56	12.61	12.65

STC: Irradiance 1000W/m², Module Temperature 25°C, AM1.5

NOCT: Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

•Electrical Characteristics At BNPI•

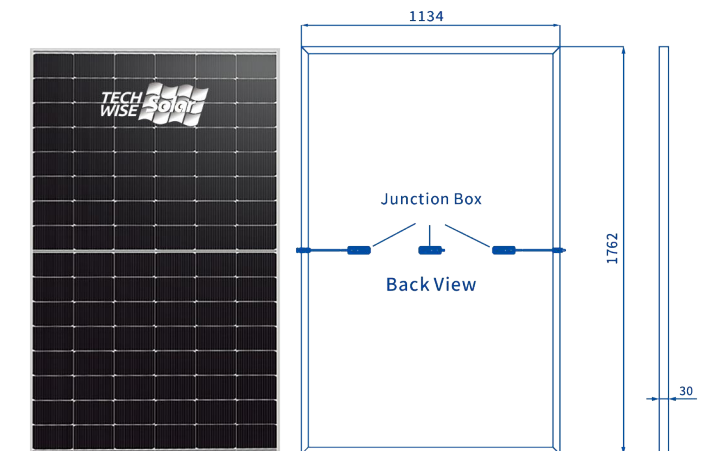
Pmax(W)	474	480	485	491	496
Voc(V)	34.93	35.20	35.47	35.75	36.02
Isc(A/135)	17.18	17.25	17.31	17.38	17.44
Vmp(V)	28.84	29.08	29.31	29.55	29.78
Imp(A)	16.43	16.50	16.54	16.61	16.65
Isc(A/300)	19.14	19.21	19.28	19.35	19.42

BNPI: Rear Irradiance 135W/m², Bifaciality coefficient 80%±5%

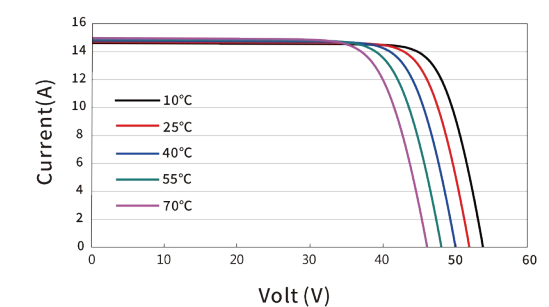
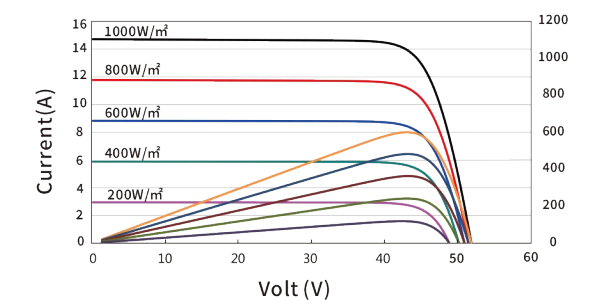
•Temperature Characteristics•

Operating Temp(°C)	-40~85
Operating Humidity(%)	5~85
Hail Load Tolerance	25mm hailstone with velocity of 23m/s
Temp Coefficient(°C/°C)	-0.30
Temp Coefficient Isc(°C/°C)	0.04
Temp Coefficient Voc(°C/°C)	-0.26
Operating Temp(°C)	44±2

•Engineering Drawings•



•I-V Curve•



•Packaging Info•

Pieces per Pallet	36
Size of Packaging (mm)	1790*1125*1270
Weight of per Pallet (kg)	925
Pieces per Container	936
Size of Container	40'HC



Add: No. 168, Group 8, Shangmanju, Caobu Town
Rudong County, Nantong City, Jiangsu Province, China
Tel: 86-513-69976081/81900128
Web: www.techwisesolar.com
Email: salesdept@techwisesolar.com

All data and specifications included in this brochure
may subject to be modified without notice.
All Rights reserved by TechWise Solar Co.
(Sep 2025 V4 Edition)