

# Sun-Pursuit Plus Series

TOPCon Bifacial  
96 - cell Module

TW-450HT-02

430-450W

0-3% Positive Tolerance



Monocrystalline



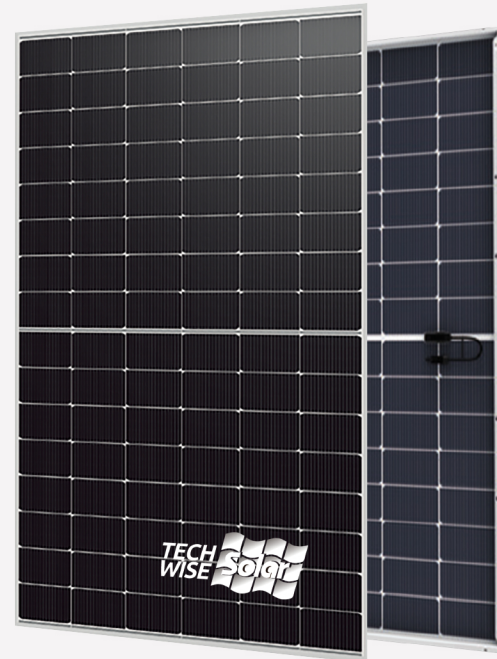
Half Cell



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.

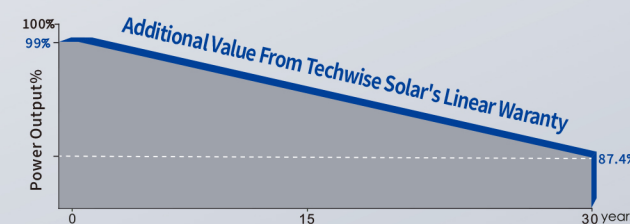
## • Quality Certification



## • 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 <sup>2</sup> , MC4 compatible |
| 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/m<sup>2</sup>, Module Temperature 25°C, AM1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

### • Electrical Characteristics At BNPI •

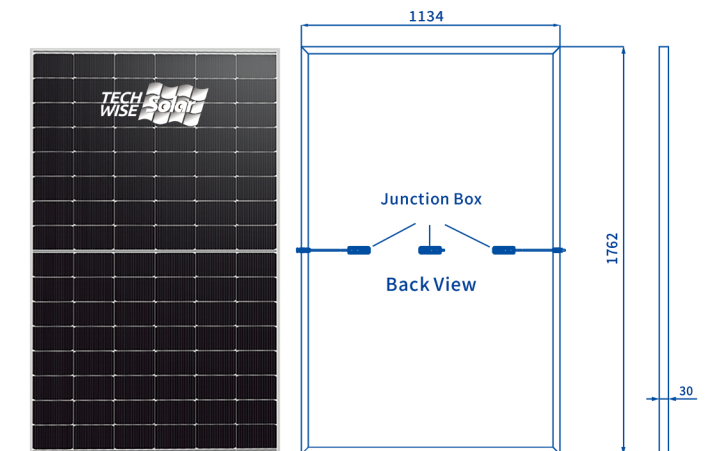
|            |       |       |       |       |       |
|------------|-------|-------|-------|-------|-------|
| Pmax(W)    | 474   | 480   | 485   | 491   | 496   |
| Voc(V)     | 34.93 | 35.20 | 35.47 | 35.75 | 36.02 |
| Isc(A/135) | 17.18 | 17.25 | 17.31 | 17.38 | 17.44 |
| Vmp(V)     | 28.84 | 29.08 | 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/m<sup>2</sup>, Bifaciality coefficient 80%±5%

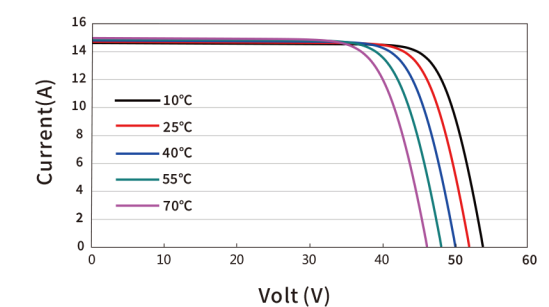
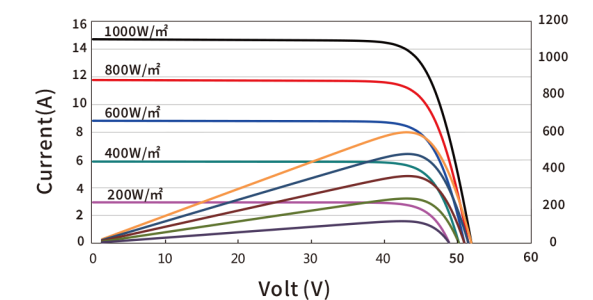
### • Temperature Characteristics •

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



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(Sep 2025 V4 Edition)