

# Sun-Pursuit Pro Series

TOPCon Bifacial  
144 - cell Module

TW-580HC

**560-580W**

0-3% Positive Tolerance



Monocrystalline



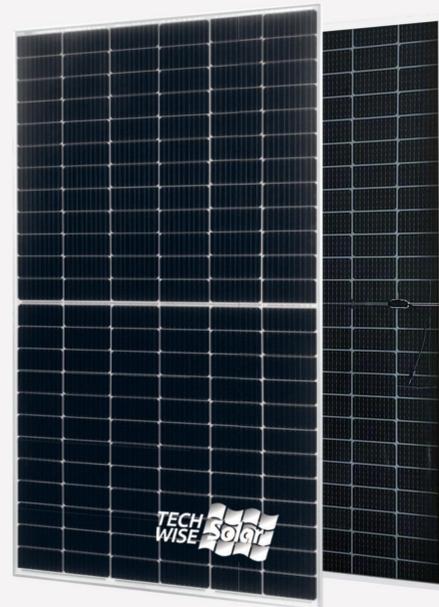
Half Cell



10BB



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.

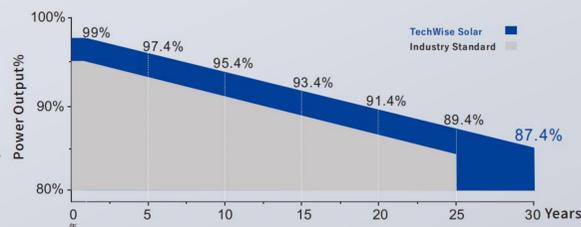
## • Quality Certification



## • Product Qualification



## • Performance Warranty



**15** 15 Years Product Warranty

**30** 30 Years Linear Power Warranty

## TW-580HC

### • Product Specification •

|                     |                                  |
|---------------------|----------------------------------|
| Cell Type           | Mono crystalline                 |
| Cell Quantity       | 144 cell                         |
| Cell Size (mm)      | 182*91                           |
| Module Size (mm)    | 2279*1134*35                     |
| Module Weight (kg)  | 28                               |
| Glass Thickness(mm) | 2.0                              |
| Frame Material      | Anodized aluminum alloy          |
| Junction Box        | IP68                             |
| Cable/Connector     | 4mm <sup>2</sup> , 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          | 560   | 565   | 570   | 575   | 580   |
|----------------------|-------|-------|-------|-------|-------|
| Pmax(W)              | 560   | 565   | 570   | 575   | 580   |
| Vmp(V)               | 43.28 | 43.58 | 43.87 | 44.17 | 44.46 |
| Imp(A)               | 12.96 | 12.99 | 13.02 | 13.05 | 13.08 |
| Voc(V)               | 51.52 | 51.63 | 51.75 | 51.86 | 51.98 |
| Isc(A)               | 13.56 | 13.58 | 13.59 | 13.61 | 13.63 |
| Module Efficiency(%) | 21.67 | 21.86 | 22.06 | 22.25 | 22.44 |

#### NOCT standard performance >>>

| Power Level | 560   | 565   | 570   | 575   | 580   |
|-------------|-------|-------|-------|-------|-------|
| Pmax(W)     | 422   | 426   | 430   | 433   | 437   |
| Vmp(V)      | 39.43 | 39.63 | 39.83 | 40.03 | 40.23 |
| Imp(A)      | 10.71 | 10.75 | 10.80 | 10.82 | 10.87 |
| Voc(V)      | 48.15 | 48.34 | 48.53 | 48.72 | 48.91 |
| Isc(A)      | 11.41 | 11.46 | 11.51 | 11.56 | 11.61 |

### • Bifacial output-backside power gain •

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| 5% Pmax(W)            | 588   | 593   | 599   | 604   | 609   |
| 5% Module Efficiency  | 30.11 | 30.38 | 30.65 | 30.92 | 31.19 |
| 15% Pmax(W)           | 644   | 650   | 656   | 661   | 667   |
| 15% Module Efficiency | 32.98 | 33.27 | 33.57 | 33.86 | 34.16 |
| 25% Pmax(W)           | 700   | 706   | 713   | 719   | 725   |
| 25% Module Efficiency | 35.85 | 36.17 | 36.49 | 36.81 | 37.13 |

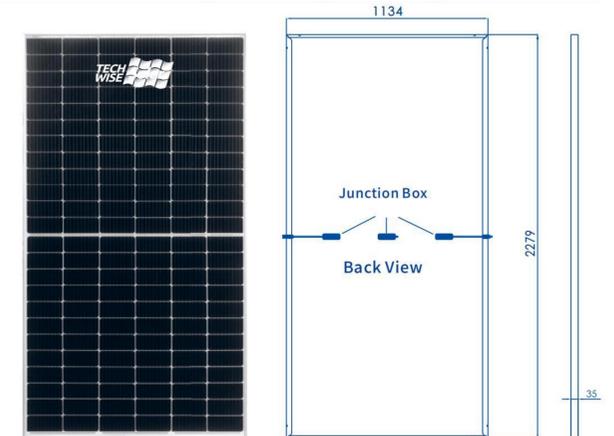
### • Temperature Characteristics •

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

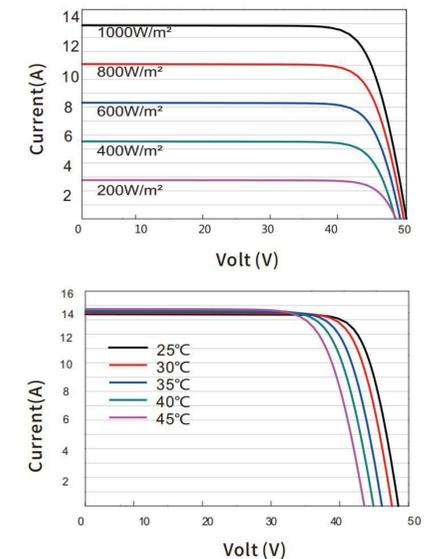


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### • Engineering Drawings •



### • I-V Curve •



### • Packaging Info •

|                          |                |
|--------------------------|----------------|
| Pieces per Pallet        | 31             |
| Size of Packaging(mm)    | 2305*1125*1270 |
| Weight of per Pallet(kg) | 893            |
| Pieces per Container     | 620            |
| Size of Container        | 40'HC          |

All data and specifications included in this brochure may subject to be modified without notice.  
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