

Sun-Pursuit Plus Series

TOPCon Bifacial
108 - cell Module

TW-515HD-1

490-515W

0-3% Positive Tolerance



Monocrystalline



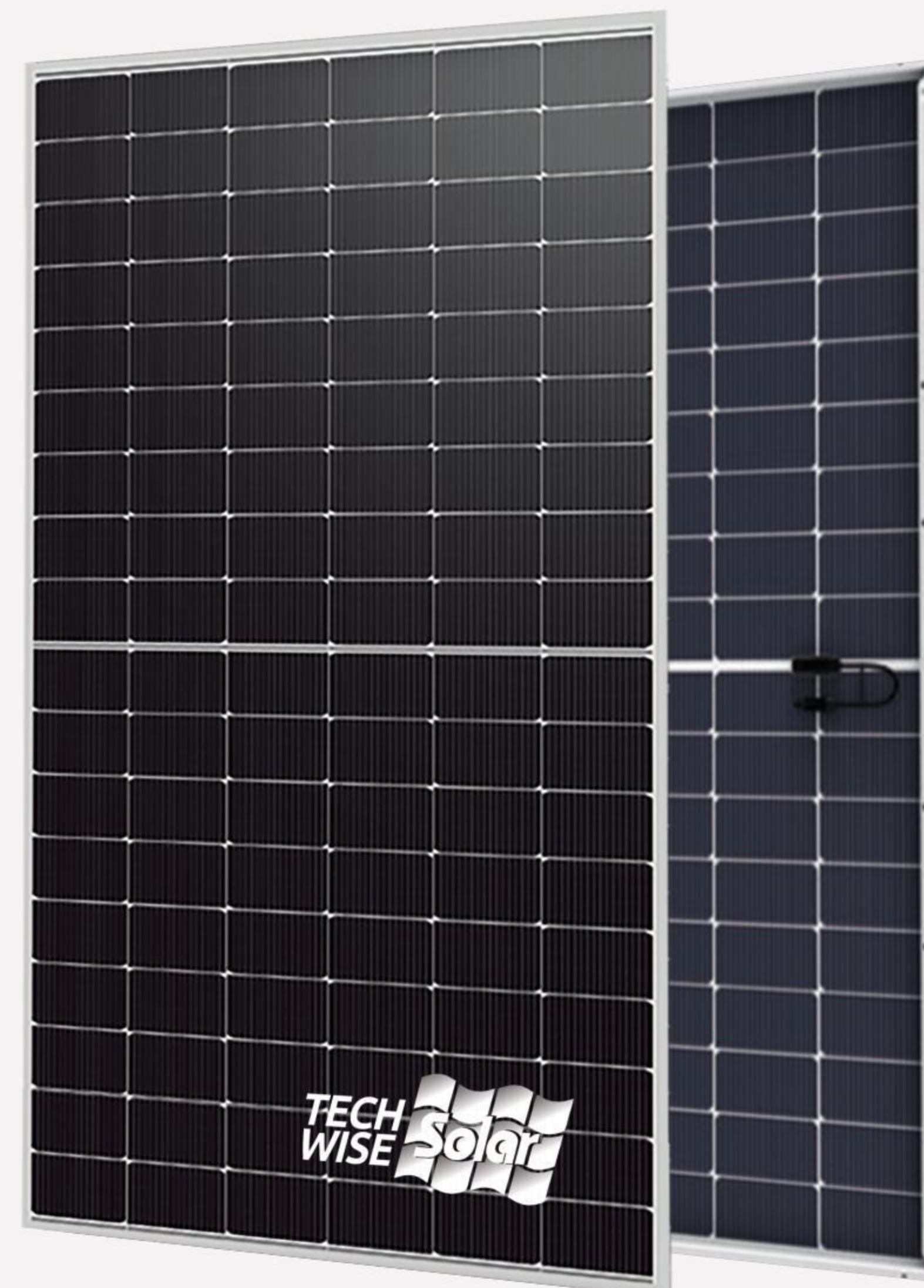
Half Cell



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.
- ANTI PID**
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.

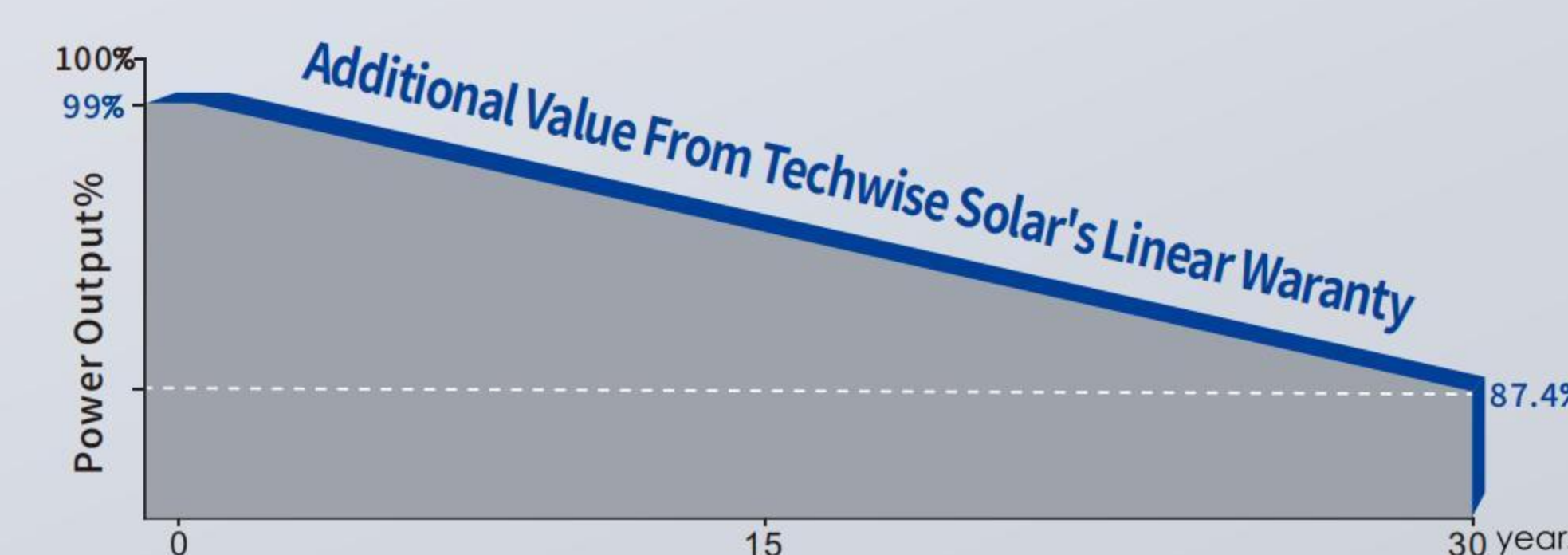
• Quality Certification



• Product Qualification



• Performance Warranty



15 15 Years Product Warranty

30 30 Years Linear Power Warranty

TW-515HD-1

• Product Specification •

| | |
|----------------------|-----------------------------------|
| Cell Type | Mono crystalline |
| Cell Quantity | 108 cell |
| Cell Size (mm) | 182*105 |
| Module Size (mm) | 1960*1134*30 |
| Module Weight (kg) | 25 |
| Glass Thickness (mm) | 2.0 |
| Frame Material | Anodized aluminum alloy |
| Junction Box | IP68 |
| Cable/Connector | 4mm ² , MC4 compatible |
| Cable Length | +300mm/-300mm; or Customize |
| Max System Volt (V) | 1500V DC |
| Max Fuse Rate (A) | 30 |
| Power Tolerance (%) | 0-+3% |

• Electrical Characteristics •

STC standard performance >>>

| | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|
| Power Level | 490 | 495 | 500 | 505 | 510 | 515 |
| Pmax(W) | 490 | 495 | 500 | 505 | 510 | 515 |
| Vmp(V) | 31.08 | 31.28 | 31.48 | 31.68 | 31.88 | 32.08 |
| Imp(A) | 15.77 | 15.83 | 15.89 | 15.95 | 16.00 | 16.06 |
| Voc(V) | 37.65 | 37.85 | 38.05 | 38.25 | 38.45 | 38.65 |
| Isc(A) | 16.77 | 16.79 | 16.81 | 16.83 | 16.85 | 16.87 |
| Module Efficiency (%) | 22.05 | 22.27 | 22.50 | 22.72 | 22.95 | 23.17 |

NOCT standard performance >>>

| | | | | | | |
|-------------|-------|-------|-------|-------|-------|-------|
| Power Level | 490 | 495 | 500 | 505 | 510 | 515 |
| Pmax(W) | 370 | 373 | 376 | 380 | 384 | 388 |
| Vmp(V) | 29.17 | 29.37 | 29.57 | 29.77 | 29.97 | 30.17 |
| Imp(A) | 12.67 | 12.71 | 12.75 | 12.79 | 12.82 | 12.86 |
| Voc(V) | 35.72 | 35.92 | 36.12 | 36.32 | 36.52 | 36.72 |
| Isc(A) | 13.40 | 13.42 | 13.44 | 13.46 | 13.48 | 13.50 |

• Bifacial Output-backside Power Gain •

| | | | | | | |
|-----------------------|-------|-------|-------|-------|-------|-------|
| 5% Pmax(W) | 515 | 520 | 525 | 530 | 536 | 541 |
| 5% Module Efficiency | 23.14 | 23.38 | 23.62 | 23.86 | 24.10 | 24.33 |
| 15% Pmax(W) | 564 | 569 | 575 | 581 | 587 | 592 |
| 15% Module Efficiency | 25.35 | 25.61 | 25.87 | 26.13 | 26.39 | 26.65 |
| 25% Pmax(W) | 613 | 619 | 625 | 631 | 638 | 644 |
| 25% Module Efficiency | 27.56 | 27.83 | 28.12 | 28.40 | 28.68 | 28.96 |

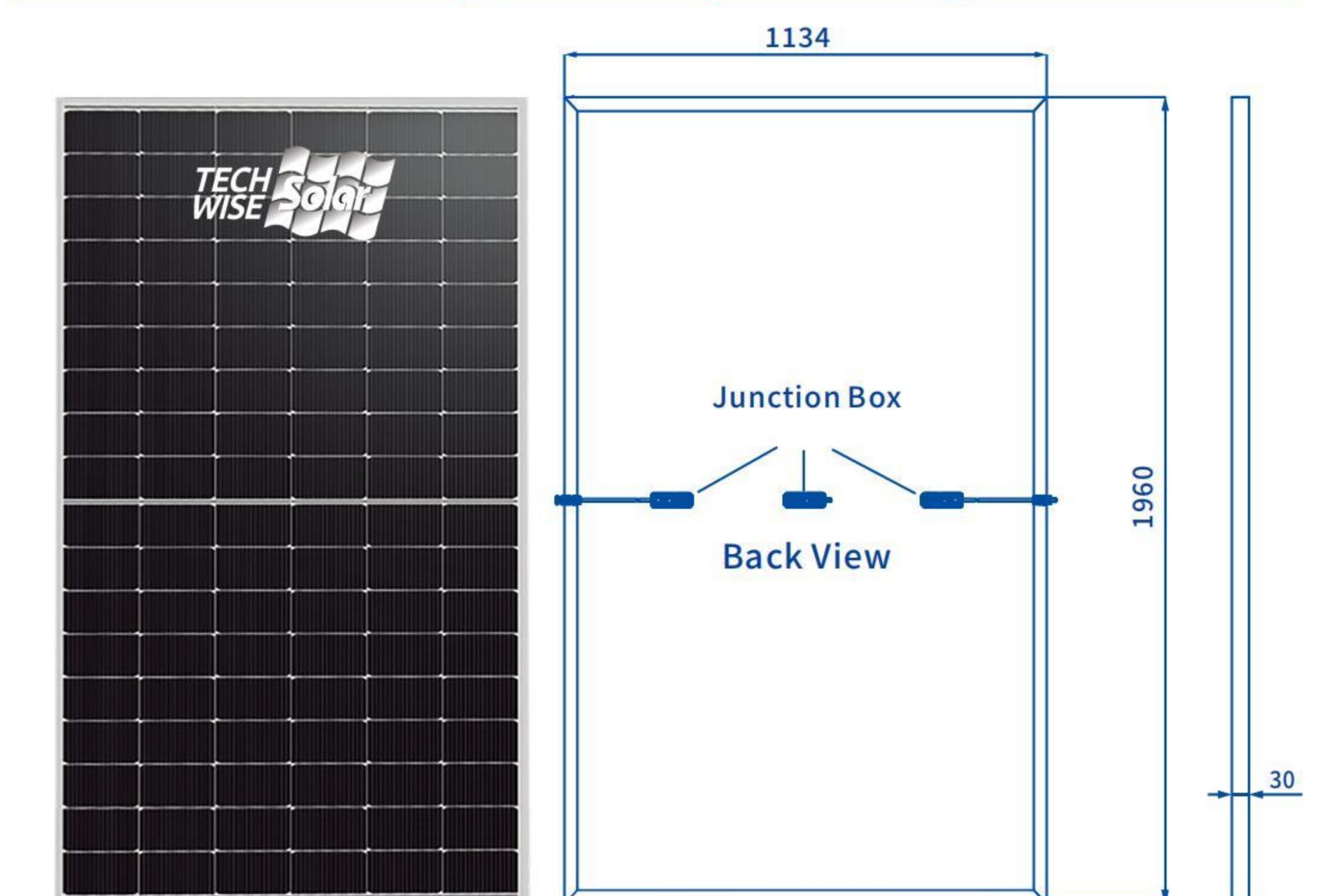
• Temperature Characteristics •

| | |
|-----------------------------|---------------------------------------|
| 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 |

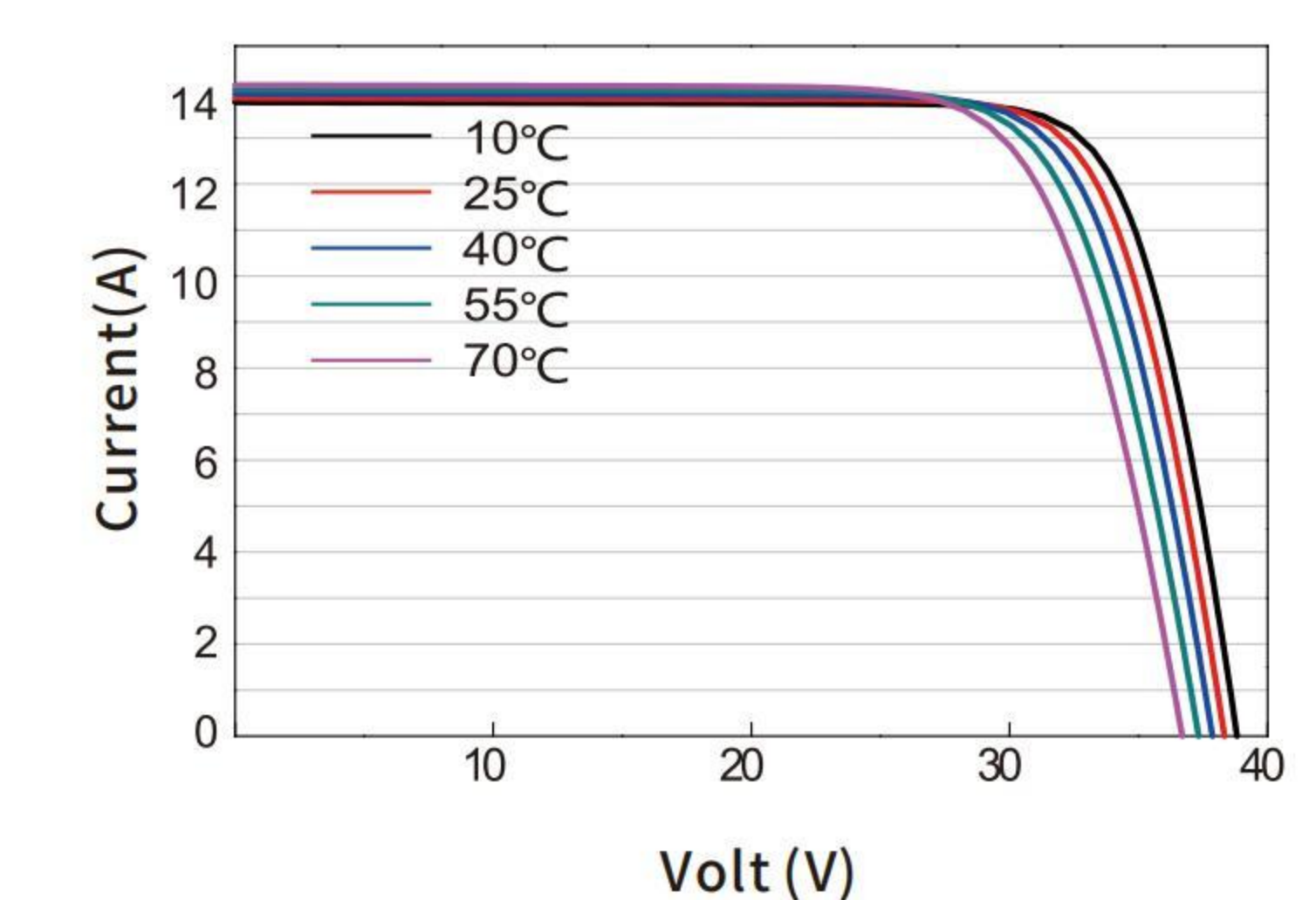
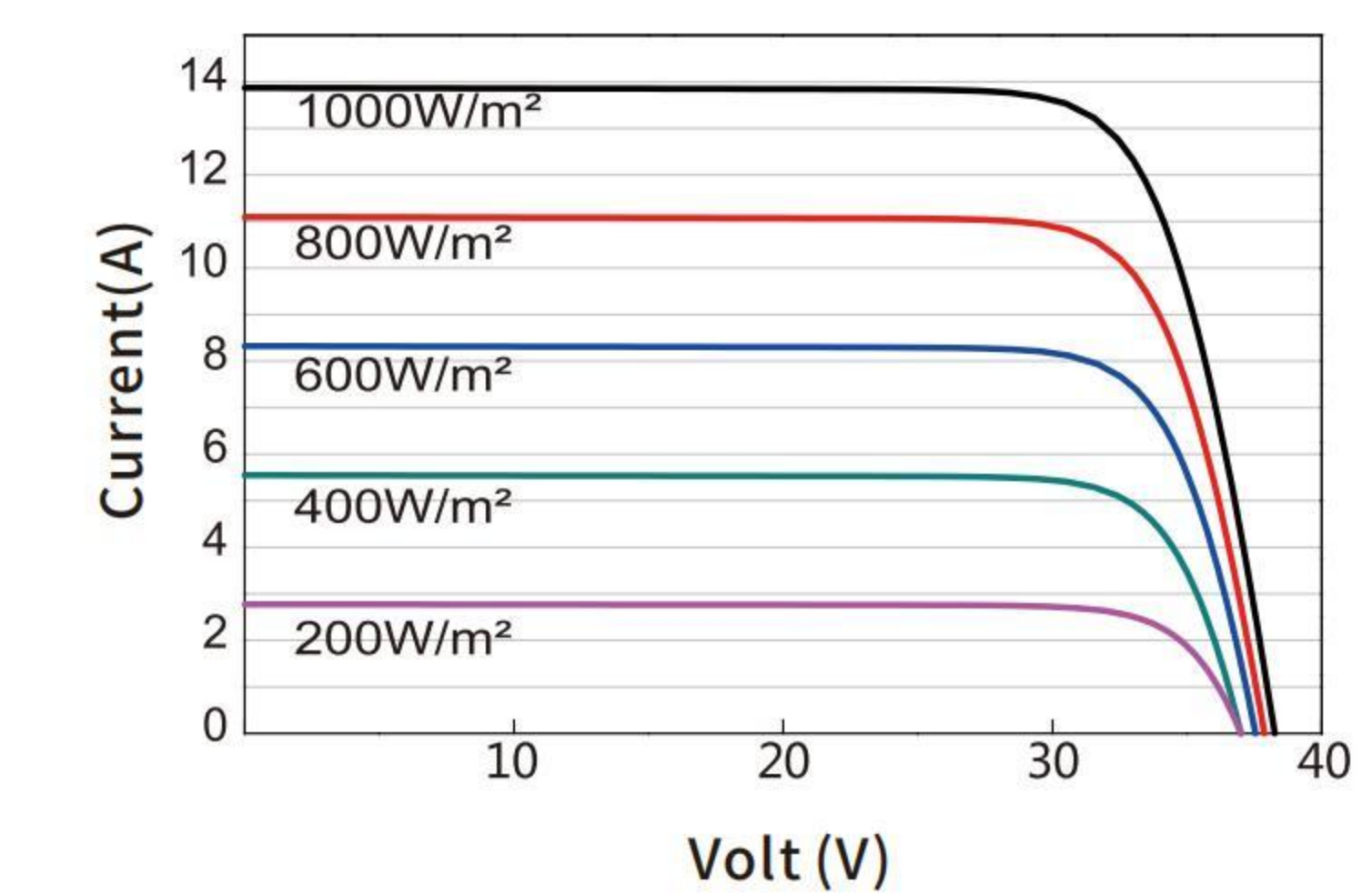


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• Engineering Drawings •



• I-V Curve •



• Packaging Info •

| | |
|---------------------------|----------------|
| Pieces per Pallet | 36 |
| Size of Packaging (mm) | 1980*1125*1270 |
| Weight of per Pallet (kg) | 925 |
| Pieces per Container | 864 |
| Size of Container | 40'HC |

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