

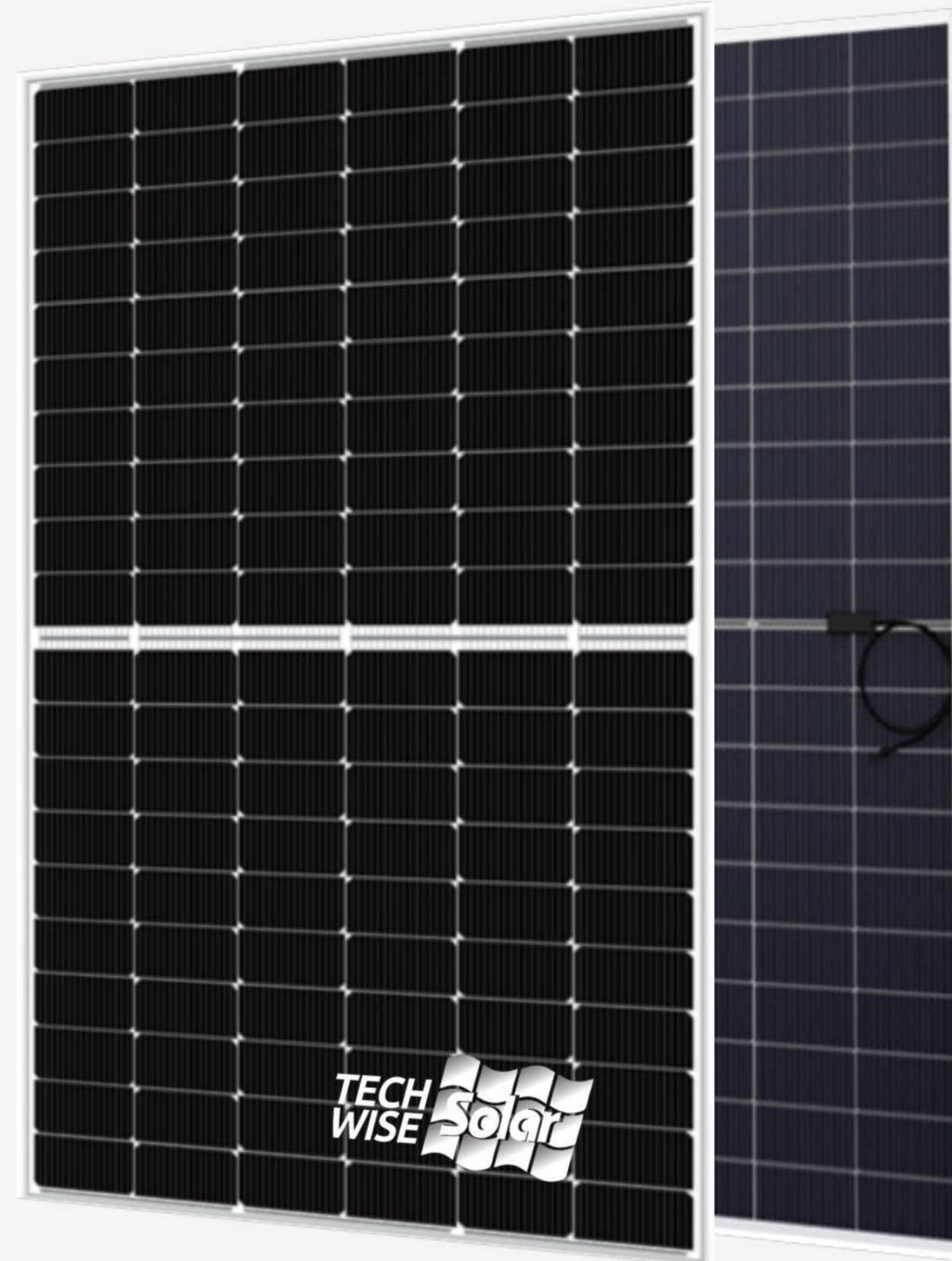
Sun-Pursuit Pro Series

TOPCon Bifacial
120 - cell Module

TW-485HD

470-485W

0-3% Positive Tolerance



• 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.

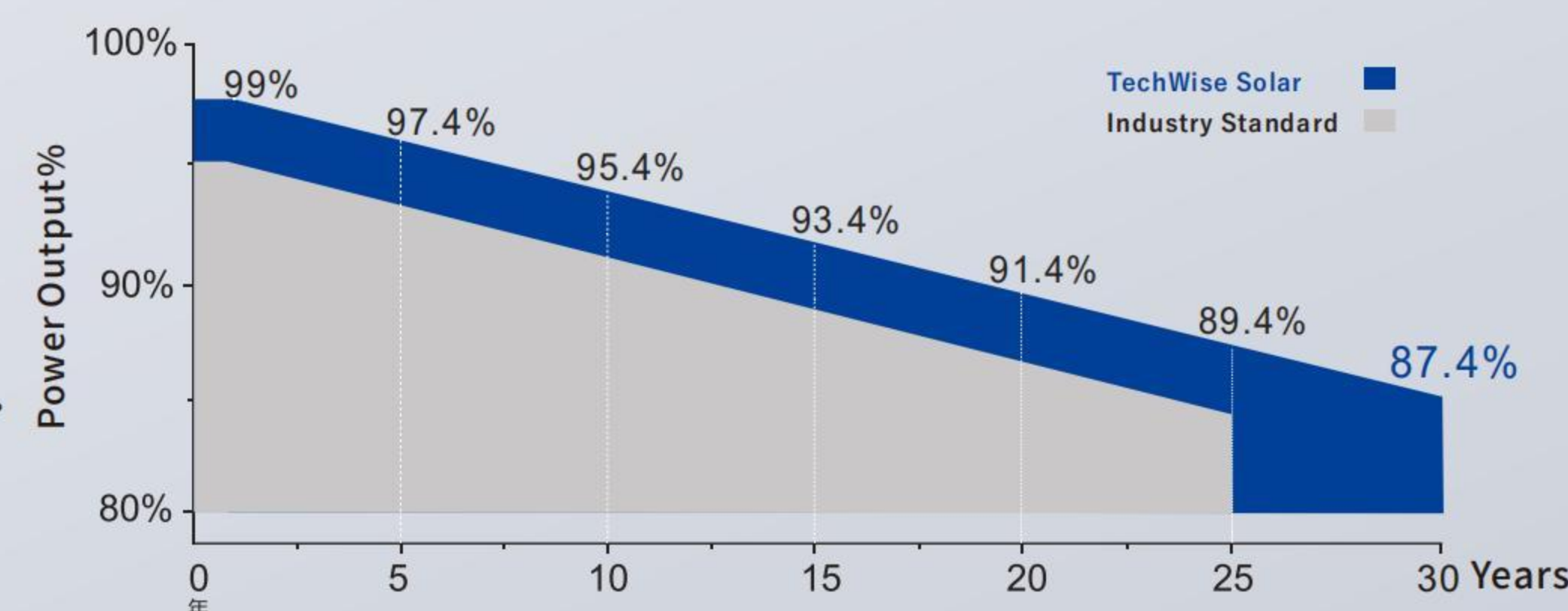
• Quality Certification



• Product Qualification



• Performance Warranty



- 15** 15 Years Product Warranty
- 30** 30 Years Linear Power Warranty

TW-485HD

• Module Specification •

Cell Type	Mono crystalline
Cell Quantity	120 cell
Cell Size (mm)	182*91
Module Size (mm)	1909*1134*35
Module Weight (kg)	24
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)	25
Power Tolerance	0~+3%

• Electrical Characteristics •

STC standard performance >>>

Power Level	470	475	480	485
Pmax(W)	470	475	480	485
Vmp(V)	35.05	35.21	35.38	35.54
Imp(A)	13.41	13.49	13.57	13.65
Voc(V)	42.38	42.54	42.71	42.88
Isc(A)	14.15	14.23	14.31	14.39
Module Efficiency(%)	21.71	21.94	22.17	22.40

NOCT standard performance >>>

Power Level	470	475	480	485
Pmax(W)	353	357	361	365
Vmp(V)	32.94	33.10	33.27	33.44
Imp(A)	10.73	10.79	10.85	10.91
Voc(V)	40.25	40.41	40.57	40.73
Isc(A)	11.42	11.49	11.55	11.61

• Bifacial output-backside power gain •

5% Pmax(W)	494	499	504	509
5% Module Efficiency	25.27	25.54	25.81	26.08
15% Pmax(W)	541	546	552	558
15% Module Efficiency	27.68	27.97	28.27	28.56
25% Pmax(W)	588	594	600	606
25% Module Efficiency	30.09	30.41	30.73	31.05

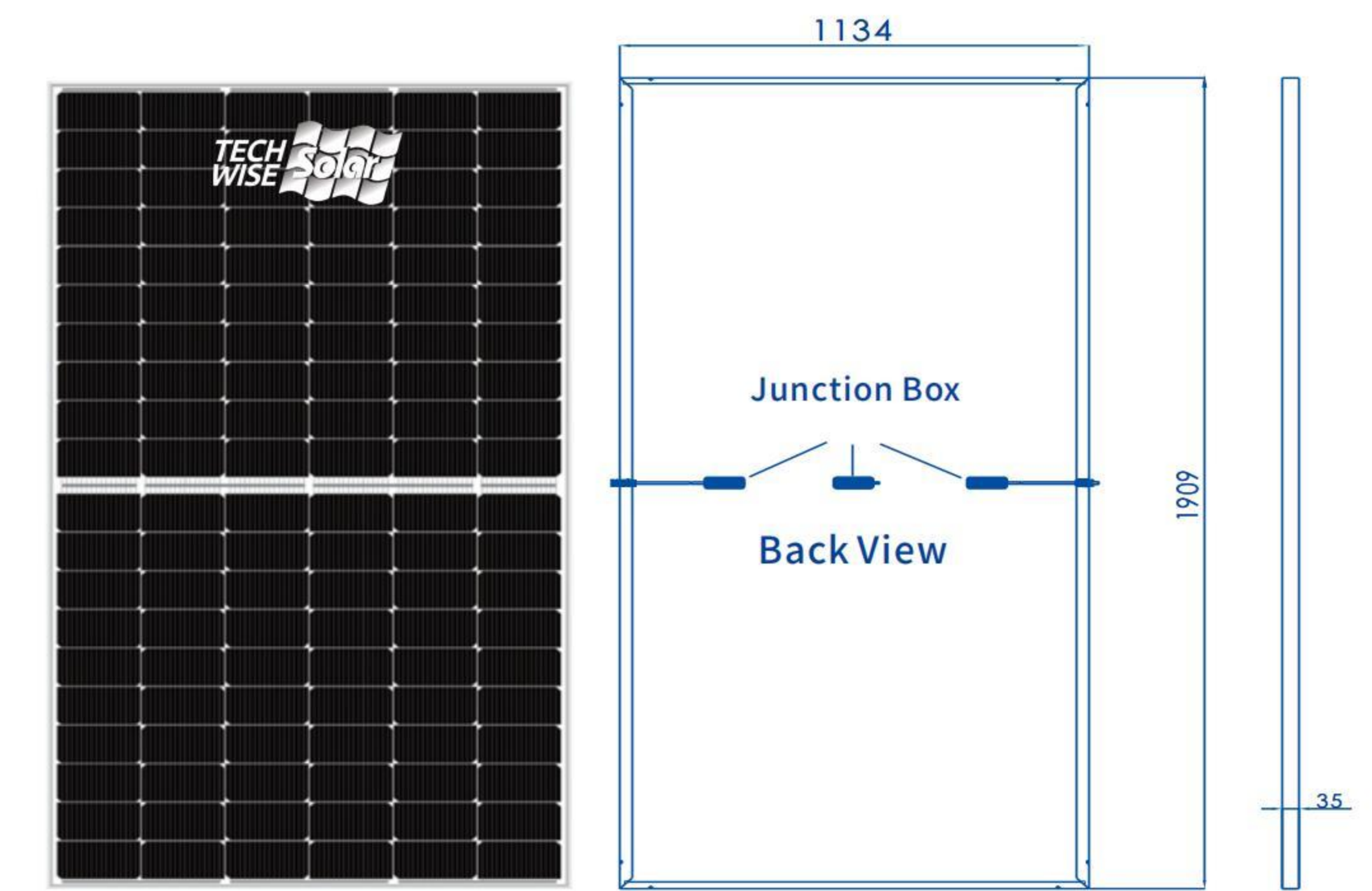
• Temperature Characteristics •

Operating Temp(°C)	-40~85
Operating Humidity(°C)	5~85
Hail Load Tolerance	25mm hailstone with velocity of 23m/s
Temp Coefficient	-0.35
Temp Coefficient Isc (%°C)	0.05
Temp Coefficient Voc (%°C)	-0.275
Operating Temp (°C)	44±2

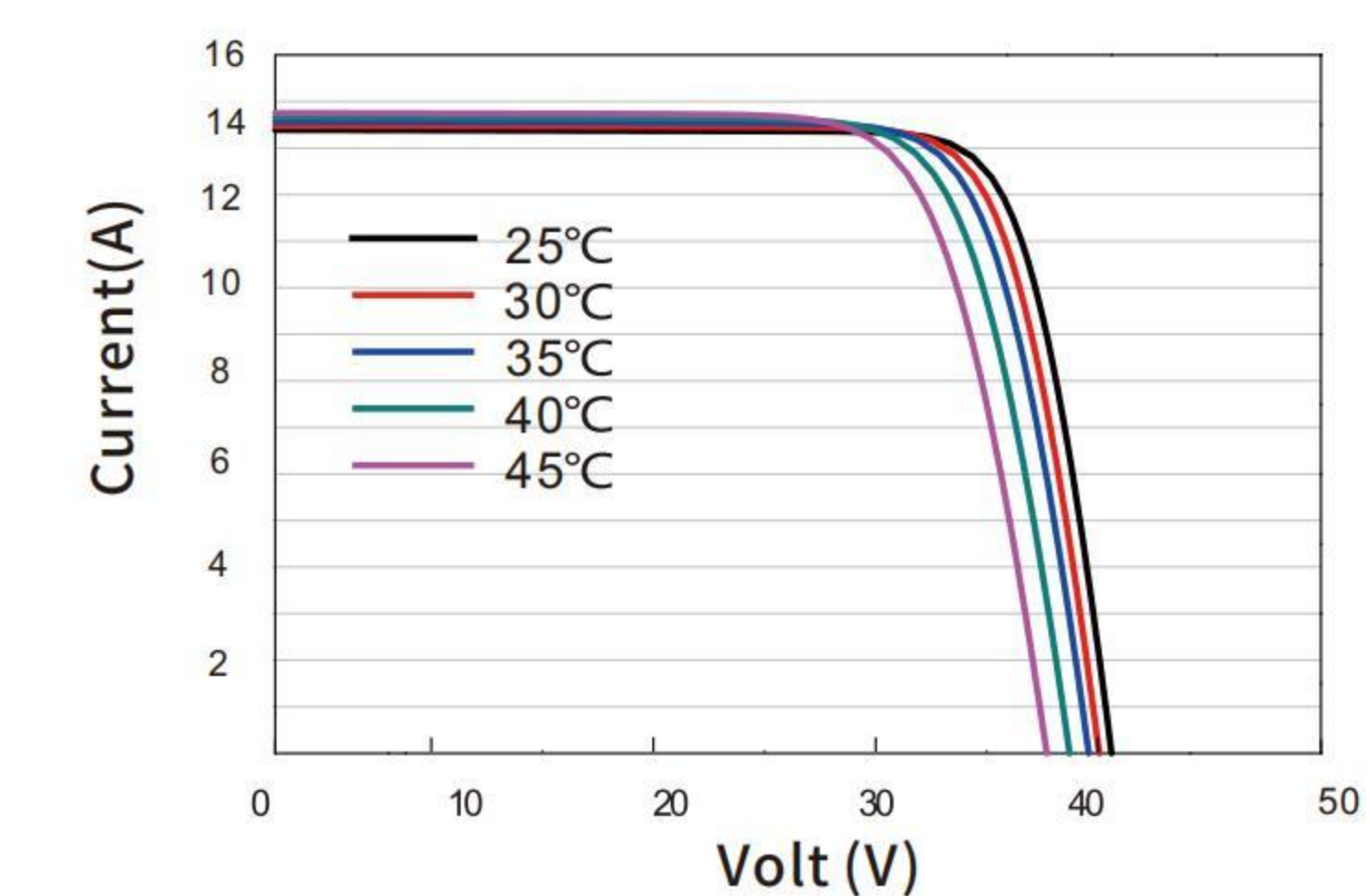
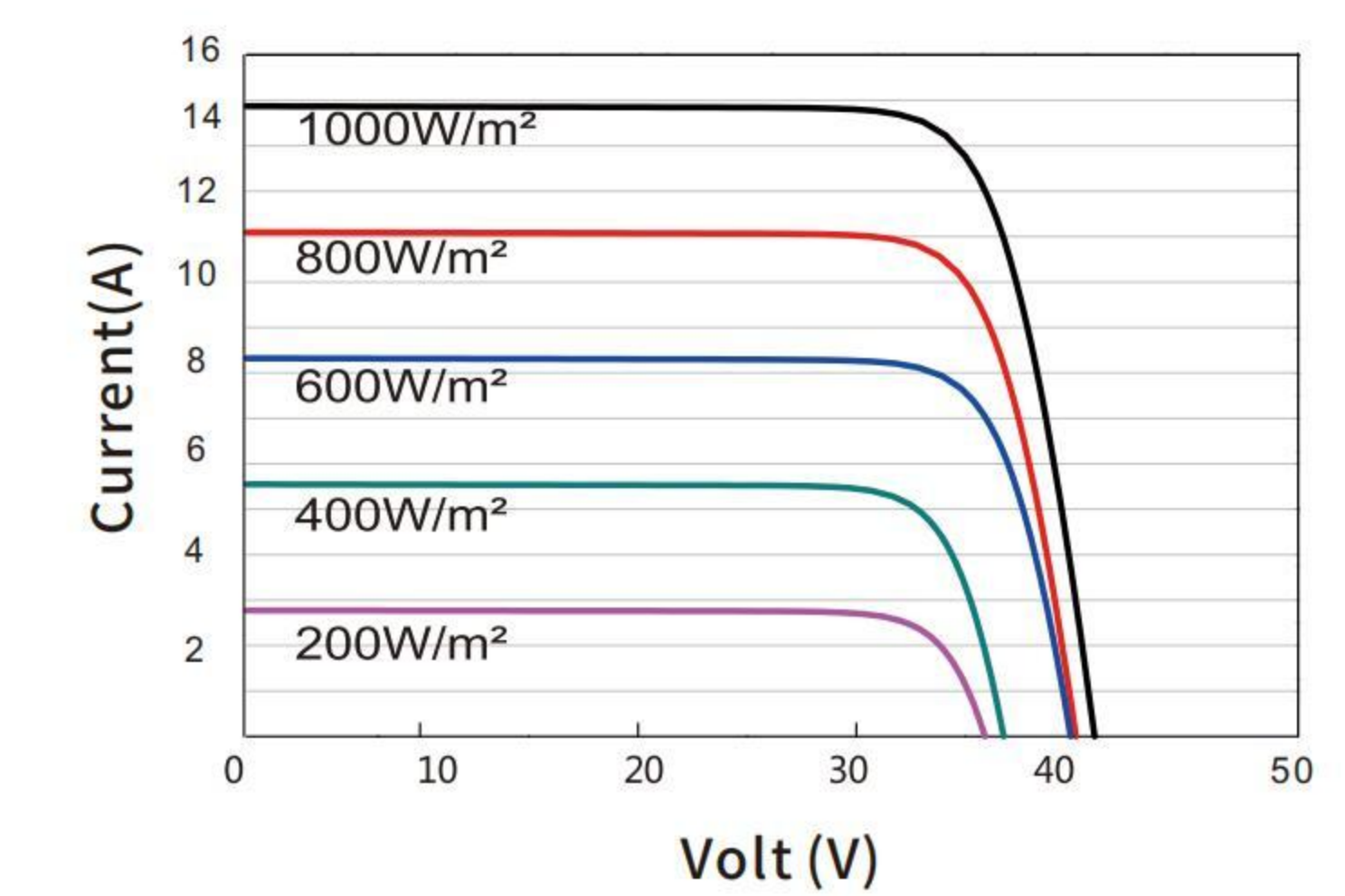


Add: Shangman Industrial Park, Caobu Town
Rudong County, Nantong City, Jiangsu Province, China
Tel: 86-513-81900128
Web: www.techwisesolar.com
Email: salesdept@techwisesolar.com

• Engineering Drawings •



• I-V Curve •



• Packaging Info •

Pieces per Pallet	31
Size of Packaging (mm)	1925*1125*1270
Weight of per Pallet (kg)	769
Pieces per Container	744
Size of Container	40'HC

All data and specifications included in this brochure may subject to be modified without notice.
All Rights reserved by TechWise Solar Co.
(Feb 2023 V2 Edition)