

Sun-Pursuit Pro Series

TOPCon Bifacial
132 - cell Module

TW-540HDB-1 FULL BLACK

520-540W

0-3% Positive Tolerance



Monocrystalline



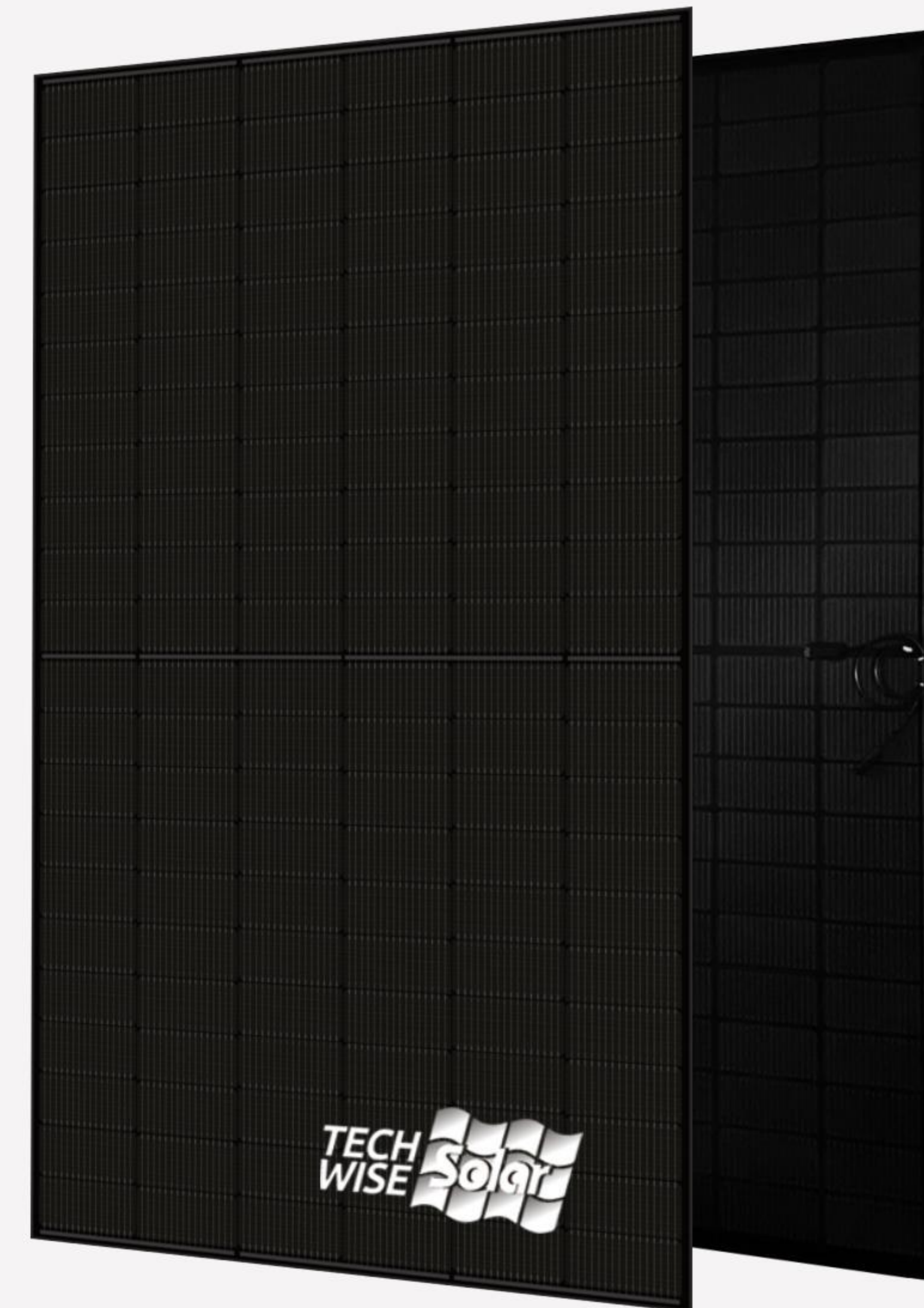
Half Cell



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.

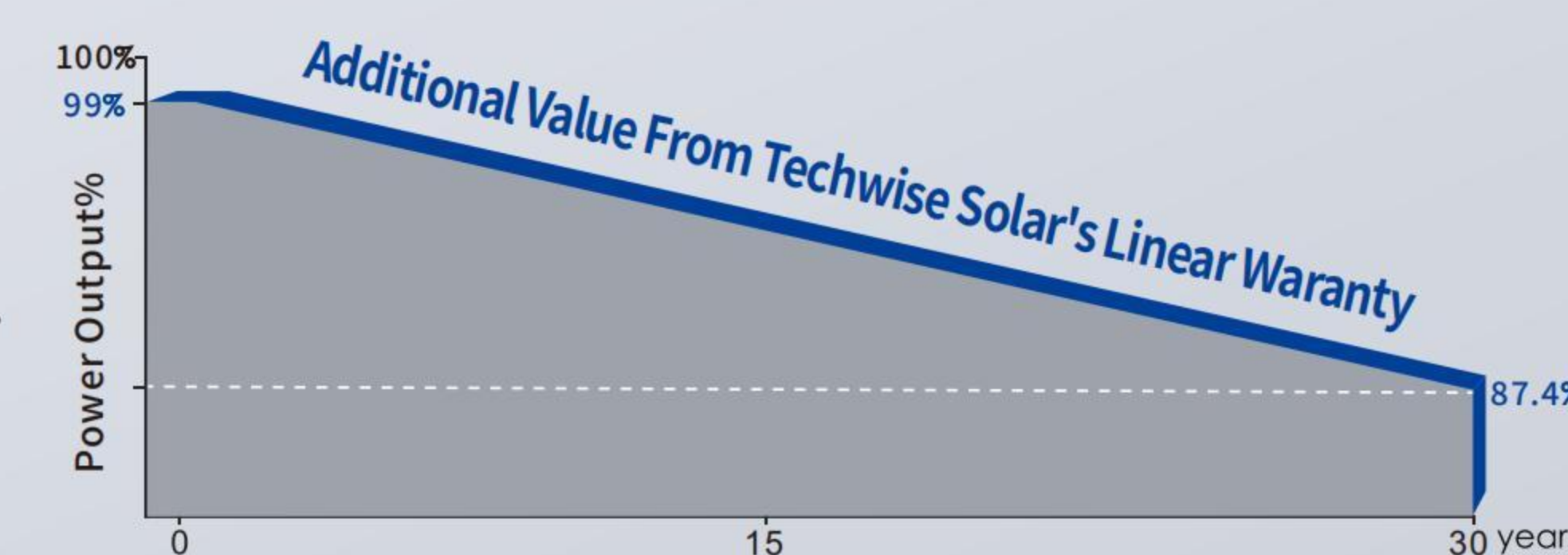
• Quality Certification



• Product Qualification



• Performance Warranty



15 15 Years Product Warranty

30 30 Years Linear Power Warranty

TW-540HDB-1

• Product Specification •

Cell Type	Mono crystalline
Cell Quantity	132 cell
Cell Size (mm)	182*91
Module Size (mm)	2094*1134*30
Module Weight (kg)	30
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	520	525	530	535	540
Pmax(W)	520	525	530	535	540
Vmp(V)	39.90	40.05	40.21	40.39	40.52
Imp(A)	13.02	13.12	13.19	13.26	13.34
Voc(V)	48.26	48.41	48.58	48.73	48.86
Isc(A)	13.83	13.94	14.01	14.08	14.16
Module Efficiency (%)	21.90	22.10	22.31	22.53	22.74

NOCT standard performance >>>

Power Level	520	525	530	535	540
Pmax(W)	388	392	396	399	403
Vmp(V)	36.41	36.54	36.69	36.84	36.98
Imp(A)	10.67	10.75	10.81	10.87	10.93
Voc(V)	45.33	45.45	45.61	45.76	45.90
Isc(A)	11.17	11.24	11.30	11.36	11.42

• Bifacial Output-backside Power Gain •

5% Pmax(W)	546	551	557	562	567
5% Module Efficiency	23.00	23.21	23.43	23.66	23.88
15% Pmax(W)	598	603	610	615	621
15% Module Efficiency	25.18	25.42	25.67	25.91	26.15
25% Pmax(W)	650	656	662	669	675
25% Module Efficiency	27.37	27.63	27.88	28.17	28.43

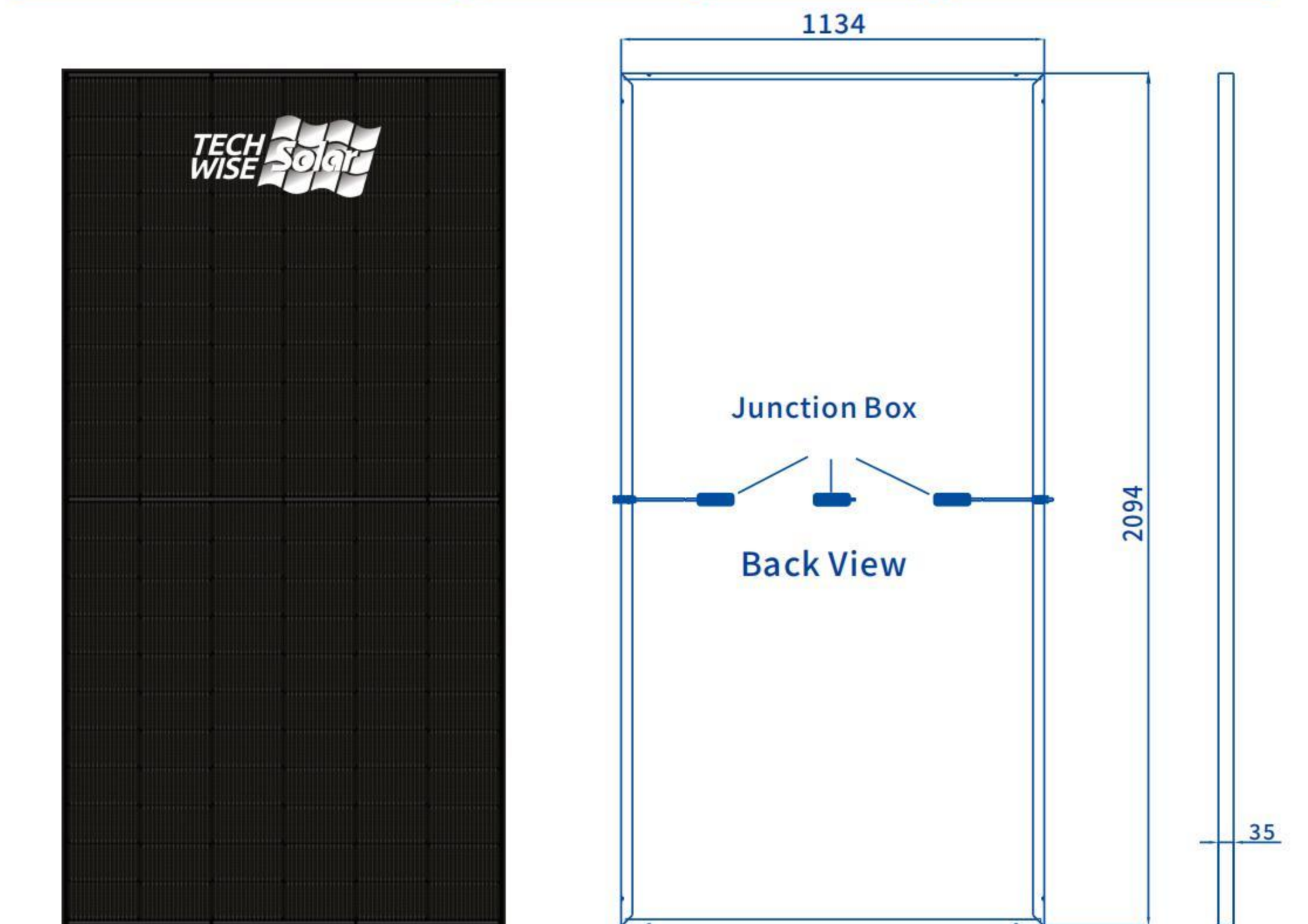
• Temperature Characteristics •

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

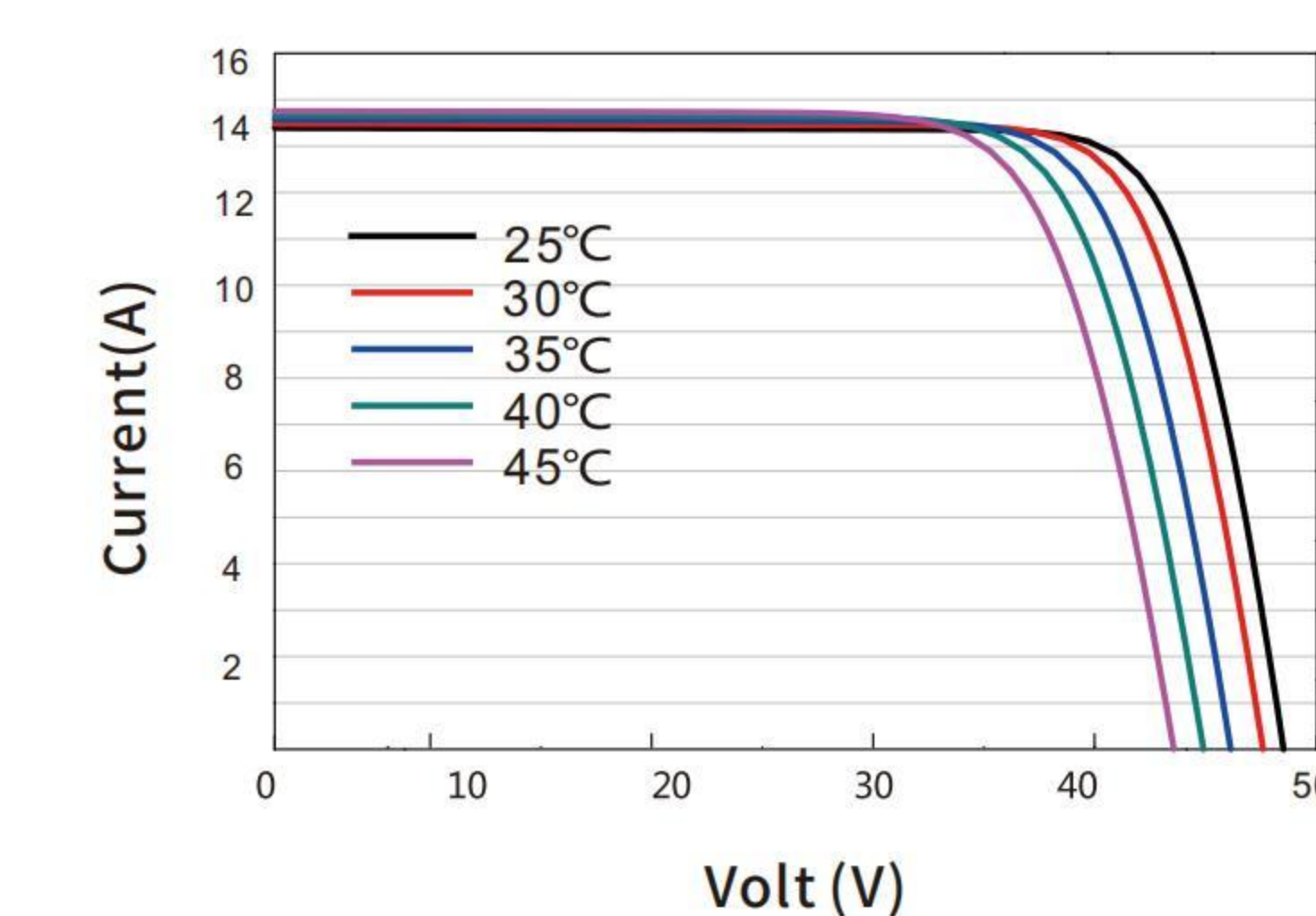
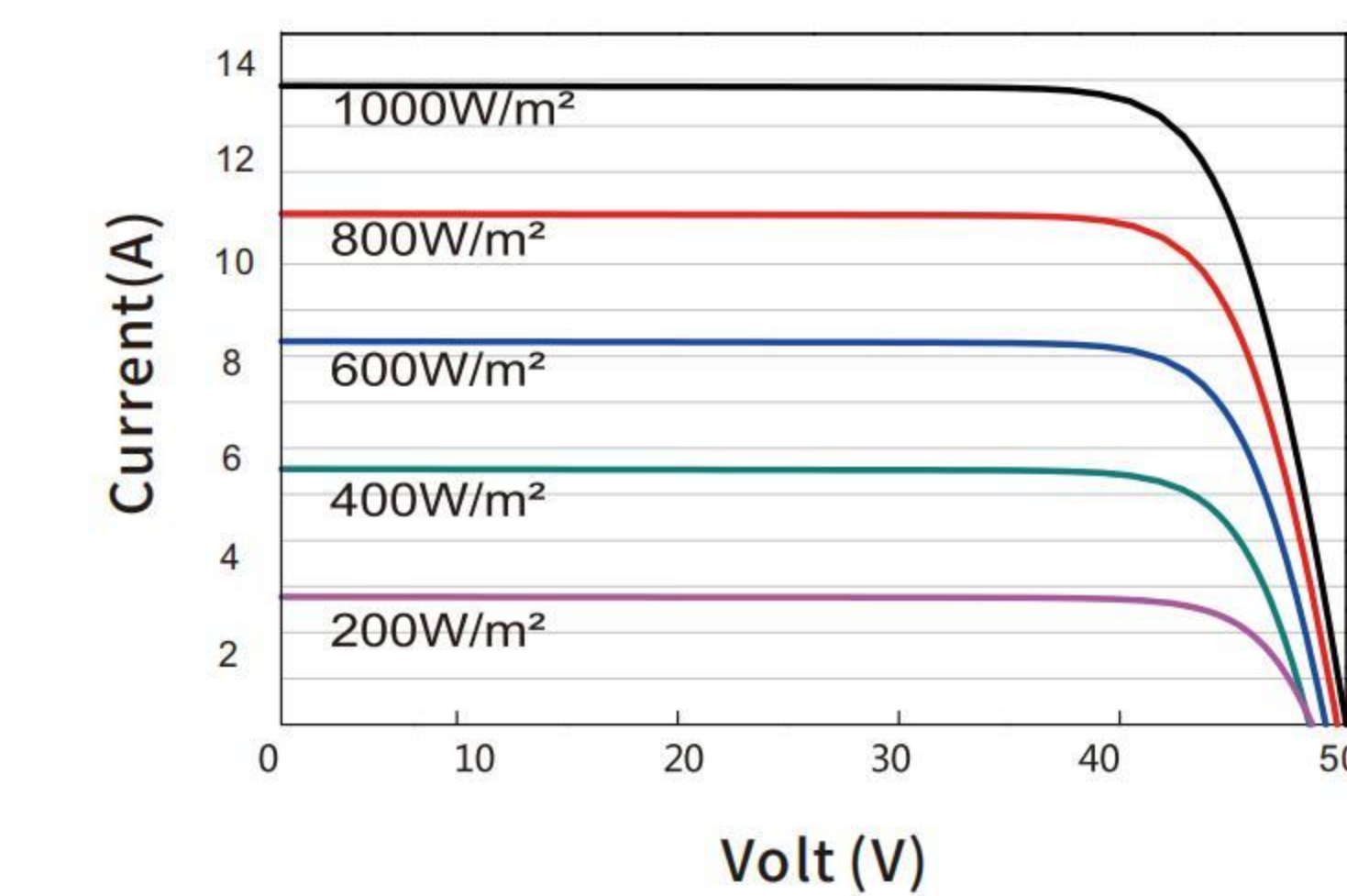


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• Engineering Drawings •



• I-V Curve •



• Packaging Info •

Pieces per Pallet	36
Size of Packaging (mm)	2120*1125*1270
Weight of per Pallet (kg)	1105
Pieces per Container	792
Size of Container	40'HC

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