

Sun-Pursuit Series

Perc Bifacial
108 - cell Module

TW-420HC-1

400-420W

0-3%Positive Tolerance



Monocrystalline



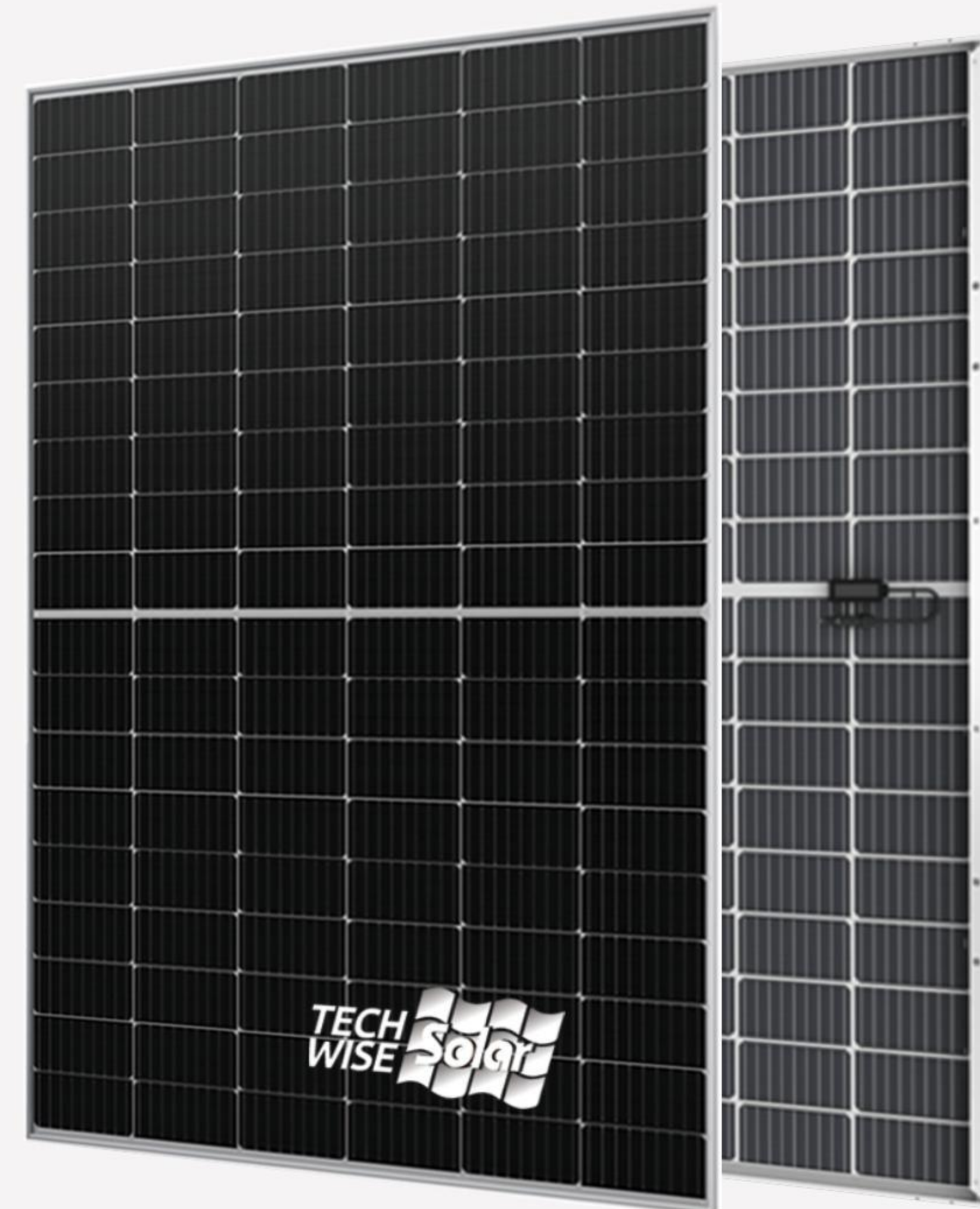
Half Cell



10BB



Grade A



• MODULE FEATURES



High efficiency

Perc 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.

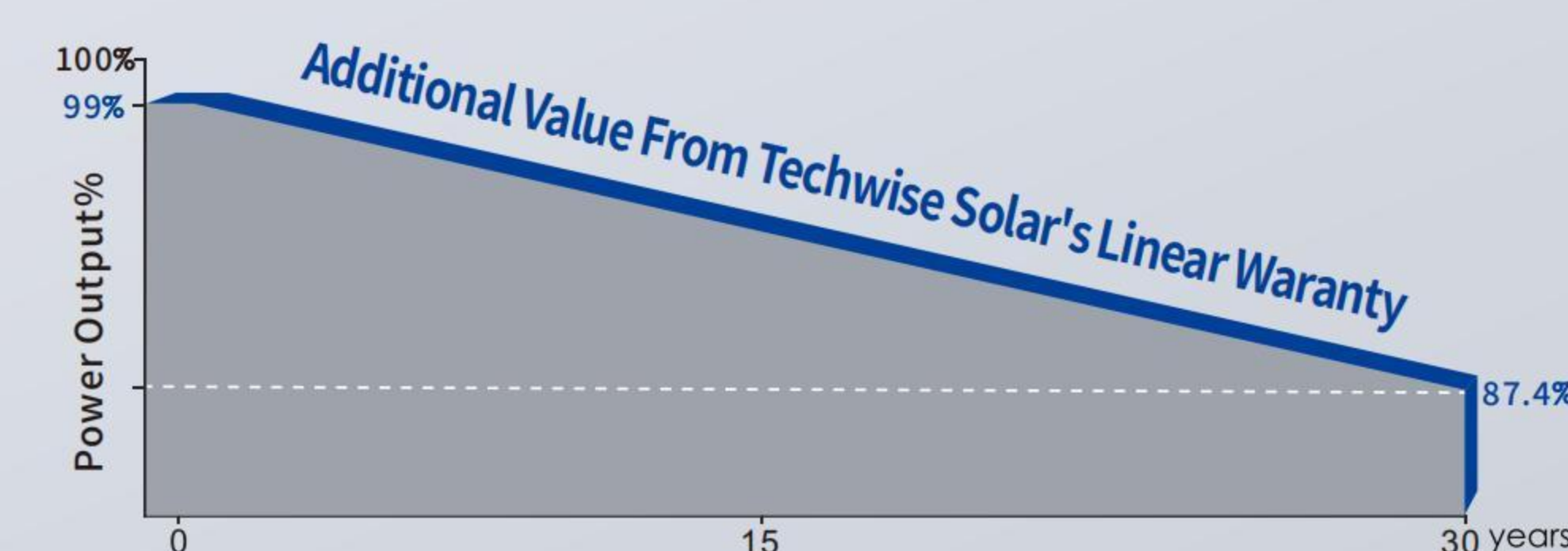
• Quality Certification



• Product Qualification



• Performance Warranty



15 15 Years Product Warranty

30 30 Years Linear Power Warranty

TW-420HC-1

• Module Specification •

Cell Type	Mono crystalline
Cell Quantity	108 cell
Cell Size (mm)	182*91
Module Size (mm)	1722*1134*30
Module Weight (kg)	24
Glass Thickness (mm)	2.0
Frame Material	Anodized aluminum alloy
Junction Box	IP68
Cable/Connector	4mm ² , 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	405	410	415	420
Pmax(W)	405	410	415	420
Vmp(V)	31.21	31.52	31.83	32.14
Imp(A)	12.95	12.98	13.01	13.04
Voc(V)	37.36	37.57	37.77	37.97
Isc(A)	13.67	13.69	13.72	13.74
Module Efficiency(%)	20.74	21.00	21.25	21.51

NOCT standard performance >>>

Power Level	405	410	415	420
Pmax(W)	307	310	313	316
Vmp(V)	29.21	29.38	29.53	29.67
Imp(A)	10.51	10.55	10.60	10.65
Voc(V)	34.81	35.03	35.18	35.36
Isc(A)	11.13	11.18	11.23	11.28

• Bifacial Output-backside Power Gain •

5% Pmax(W)	425	431	436	441
5% Module Efficiency	21.76	22.07	22.33	22.58
15% Pmax(W)	466	472	477	483
15% Module Efficiency	23.86	24.17	24.43	24.73
25% Pmax(W)	506	513	519	525
25% Module Efficiency	25.91	26.27	26.58	26.89

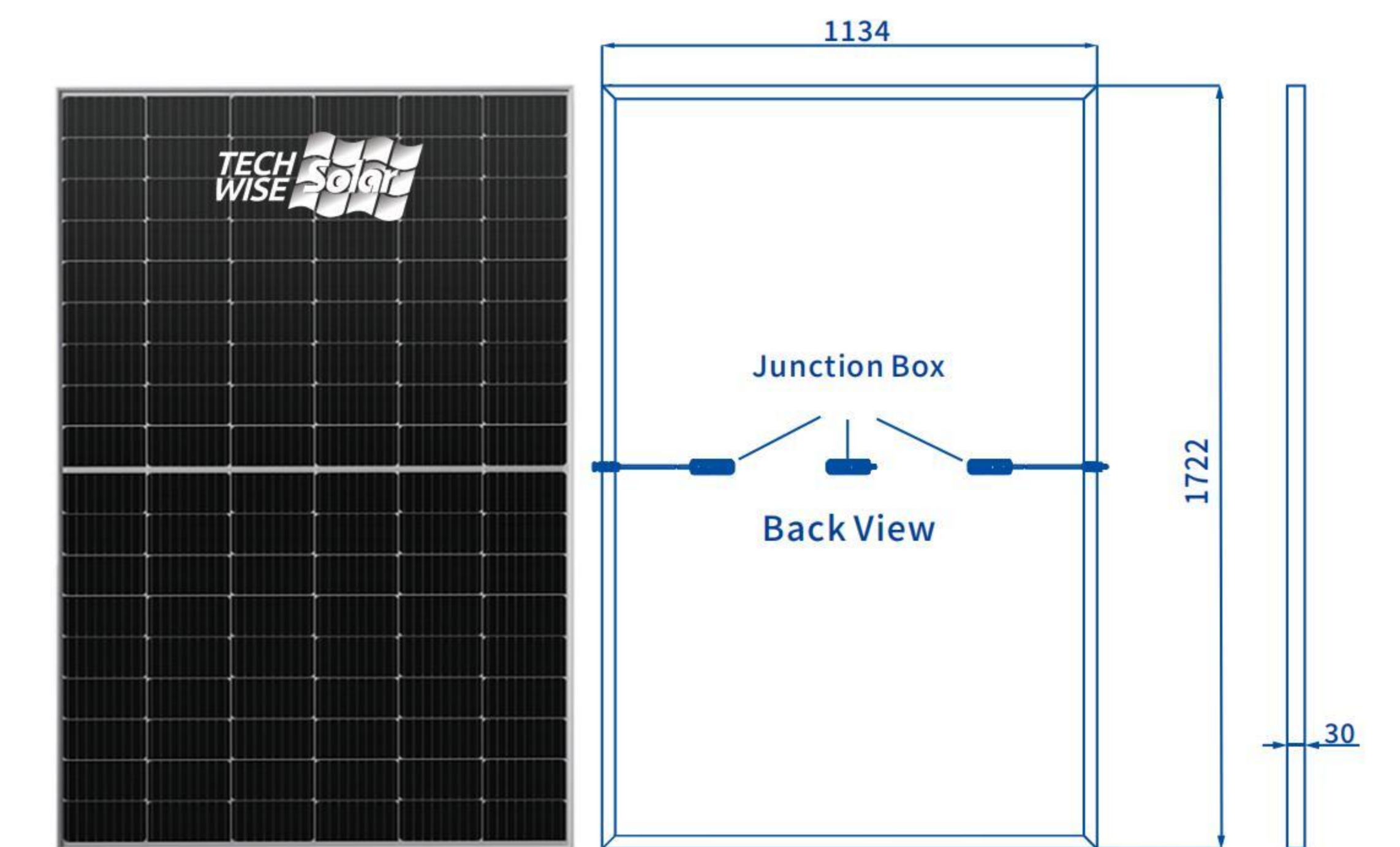
• Temperature Characteristics •

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

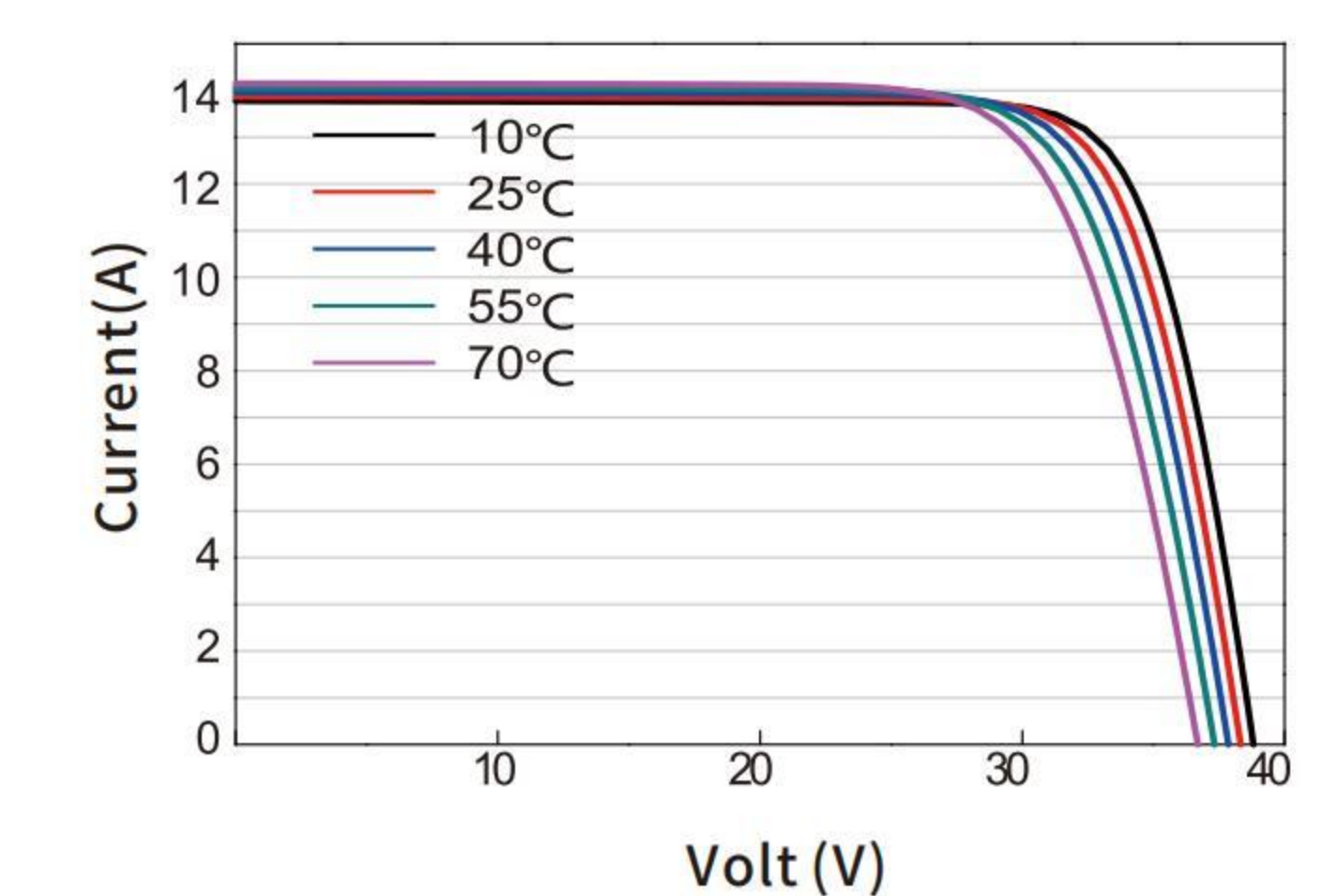
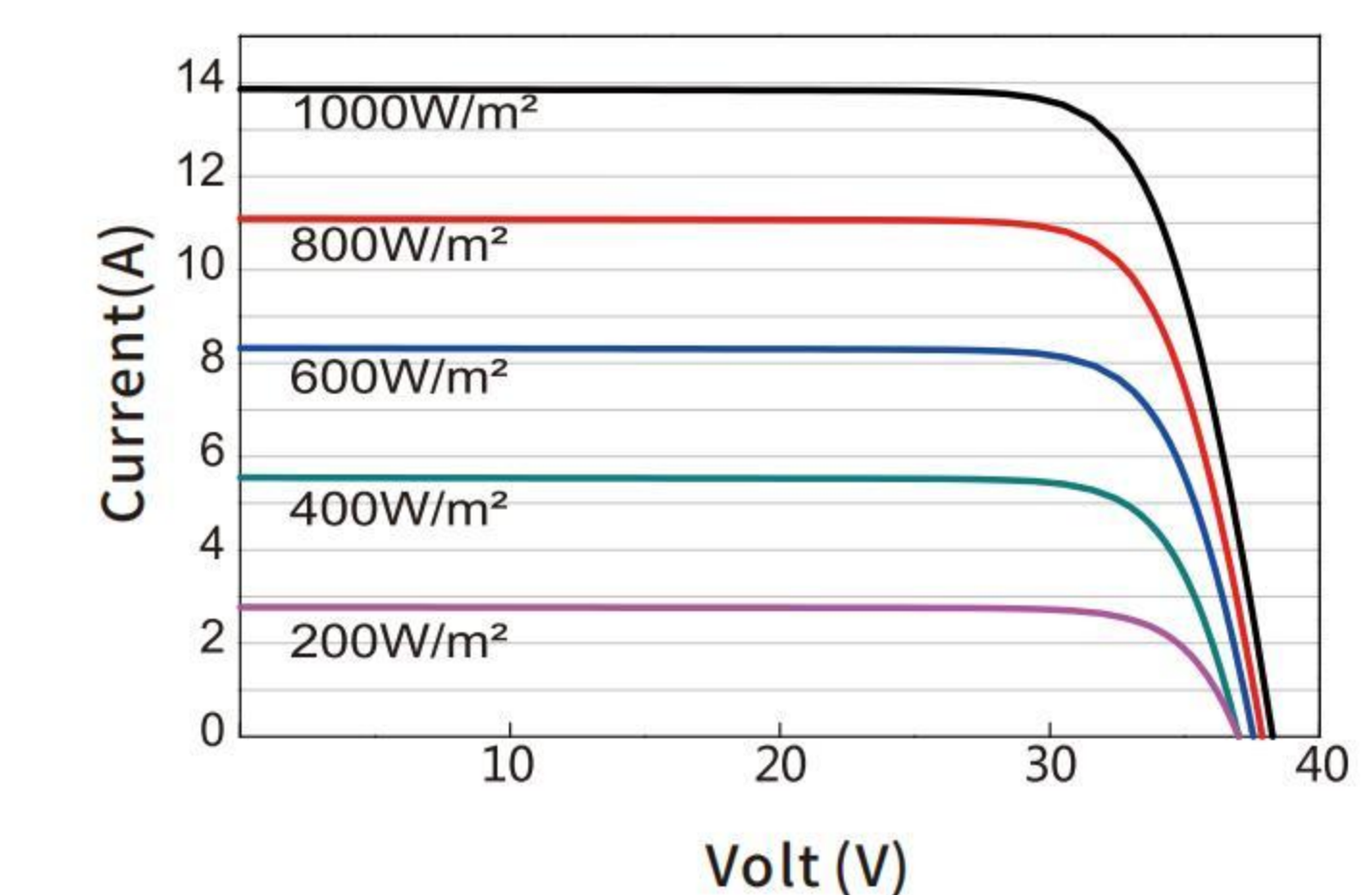


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• Engineering Drawings •



• I-V Curve •



• Packaging Info •

Pieces per Pallet	36
Size of Packaging (mm)	1750*1125*1270
Weight of per Pallet (kg)	889
Pieces per Container	936
Size of Container	40'HC

All data and specifications included in this brochure
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