

# Sun-Pursuit Plus Series

TOPCon Bifacial  
96 - cell Module

TW-445HT-02 Full Black

**425-445W**

0-3% Positive Tolerance



Monocrystalline



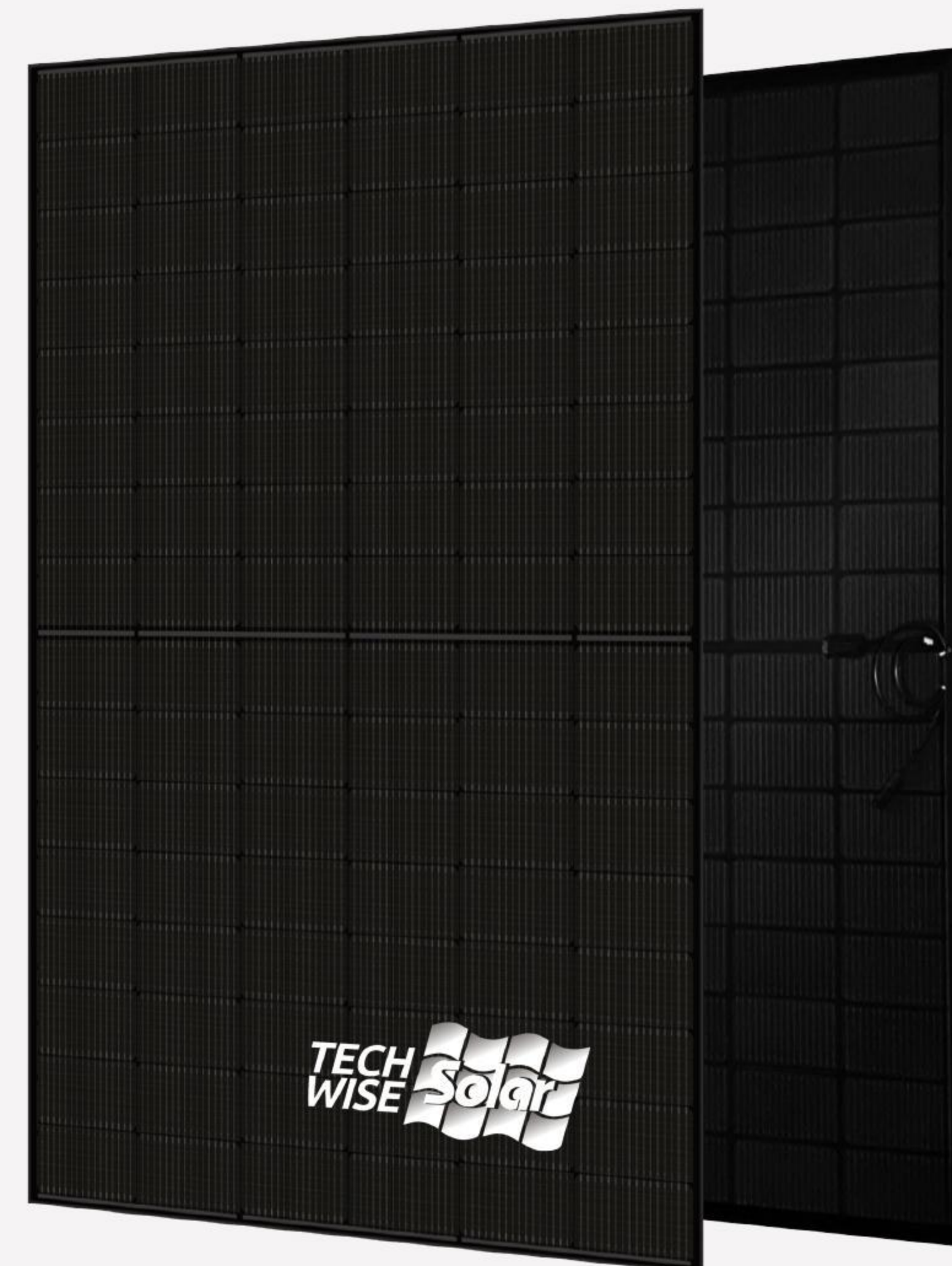
Half Cell



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.
- 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.

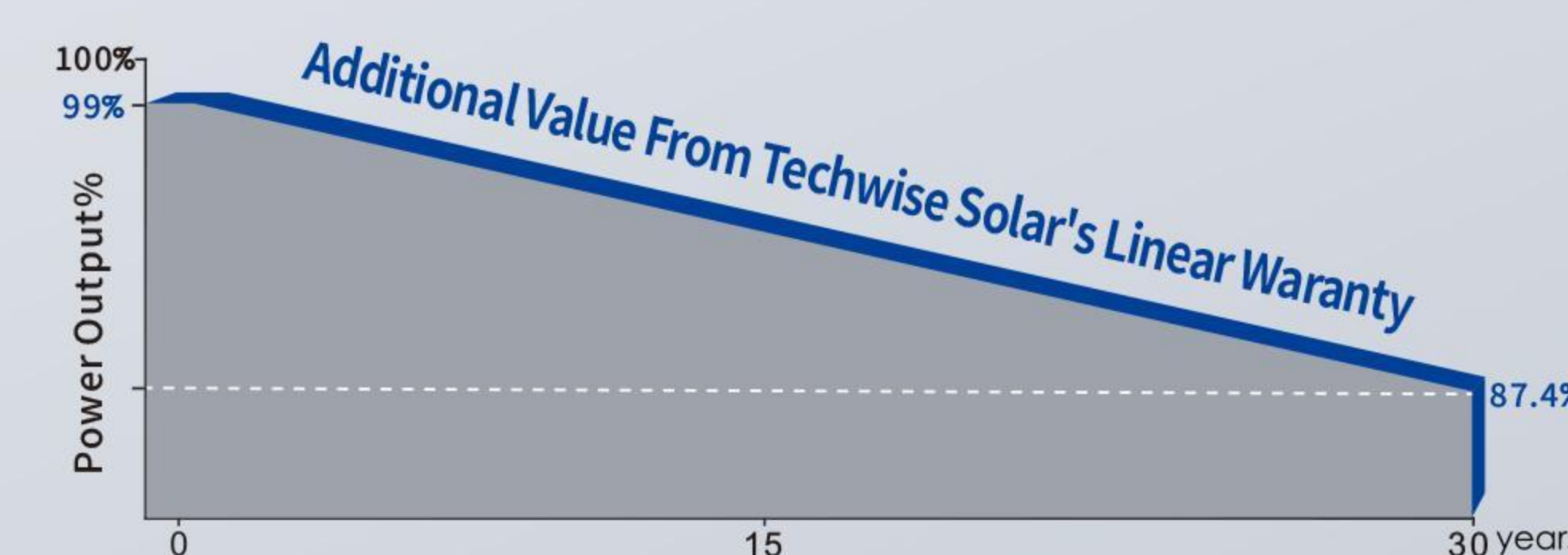
## • Quality Certification



## • Product Qualification



## • Performance Warranty



**15** 15 Years Product Warranty

**30** 30 Years Linear Power Warranty

## TW-445HT-02

### • Product Specification •

Cell Type	Mono crystalline
Cell Quantity	96 cell
Cell Size (mm)	182*105
Module Size (mm)	1762*1134*30
Module Weight (kg)	25
Glass Thickness (mm)	2.0
Frame Material	Anodized aluminum alloy
Junction Box	IP68
Cable/Connector	4mm <sup>2</sup> , MC4 compatible
Cable Length	+300mm/-300mm; or Customize
Max System Volt (V)	1500V DC
Max Fuse Rate (A)	30
Power Tolerance	0+3%
Refer. Bifacial Factor	80±10%

### • Electrical Characteristics •

#### STC standard performance >>>

Power Level	425	430	435	440	445
Pmax (W)	425	430	435	440	445
Vmp (V)	28.60	28.84	29.08	29.31	29.55
Imp (A)	14.86	14.91	14.96	15.01	15.06
Voc (V)	34.65	34.93	35.20	35.47	35.75
Isc (A)	15.53	15.58	15.64	15.70	15.76
Module Efficiency (%)	21.27	21.52	21.77	22.02	22.27

#### NOCT standard performance >>>

Power Level	425	430	435	440	445
Pmax (W)	321	325	329	333	336
Vmp (V)	27.00	27.25	27.48	27.70	27.92
Imp (A)	11.89	11.93	11.97	12.01	12.05
Voc (V)	32.88	33.18	33.44	33.70	33.96
Isc (A)	12.44	12.47	12.51	12.56	12.61

STC: Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, AM1.5  
NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

### • Electrical Characteristics At BNPI •

Pmax (W)	469	474	480	485	491
Voc (V)	34.65	34.93	35.20	35.47	35.75
Isc (A/135)	17.12	17.18	17.25	17.31	17.38
Vmp (V)	28.60	28.84	29.08	29.31	29.55
Imp (A)	16.40	16.43	16.50	16.54	16.61
Isc (A/300)	19.07	19.14	19.21	19.28	19.35

BNPI: Rear Irradiance 135W/m<sup>2</sup>, Bifaciality coefficient 80%±5%

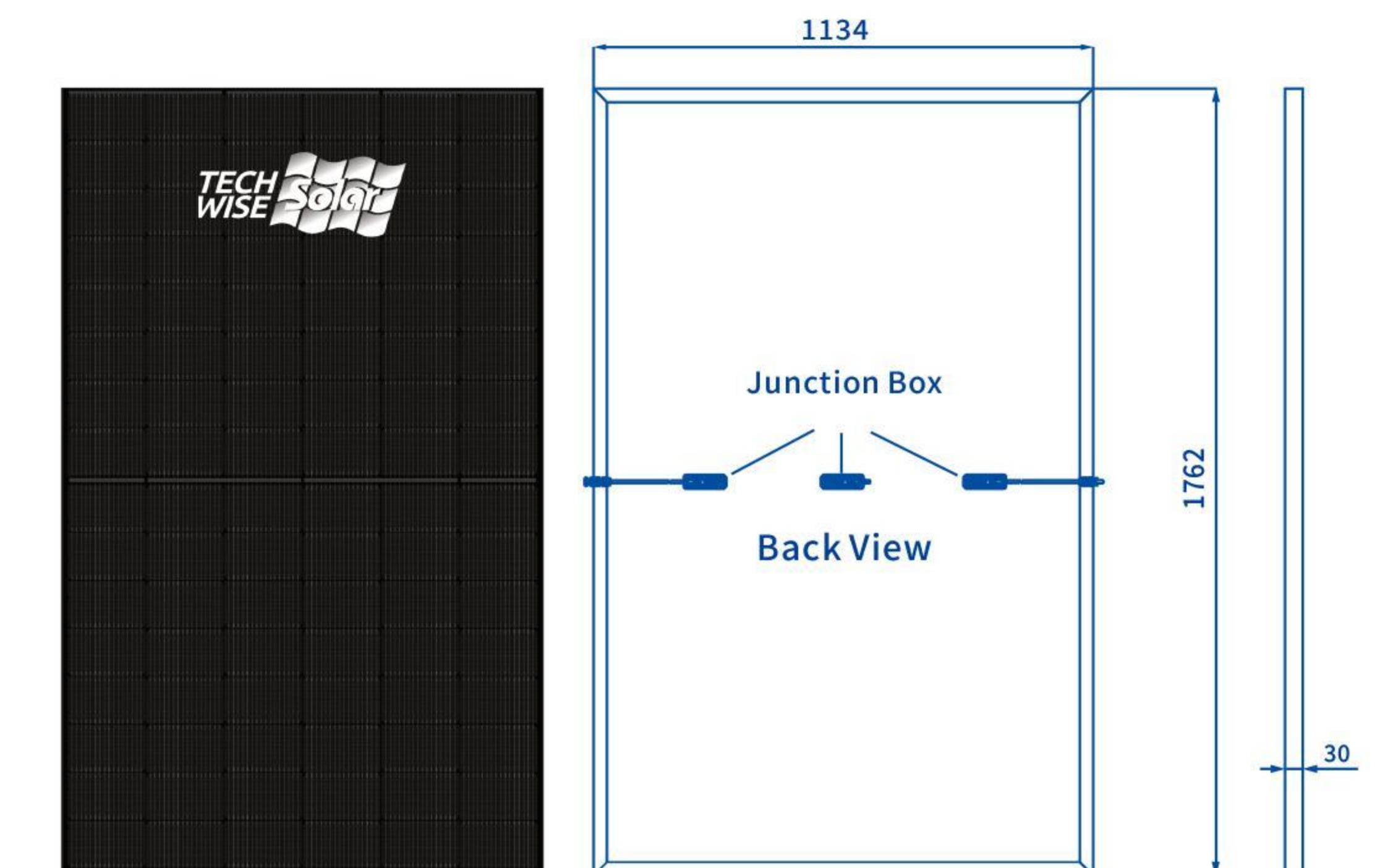
### • Temperature Characteristics •

Operating Temp (°C)	-40~85
Operating Humidity (%)	5~85
Hail Load Tolerance	25mm hailstone with velocity of 23m/s
Temp Coefficient (%/°C)	-0.30
Temp Coefficient Isc (%/°C)	0.04
Temp Coefficient Voc (%/°C)	-0.26
Operating Temp (°C)	44±2

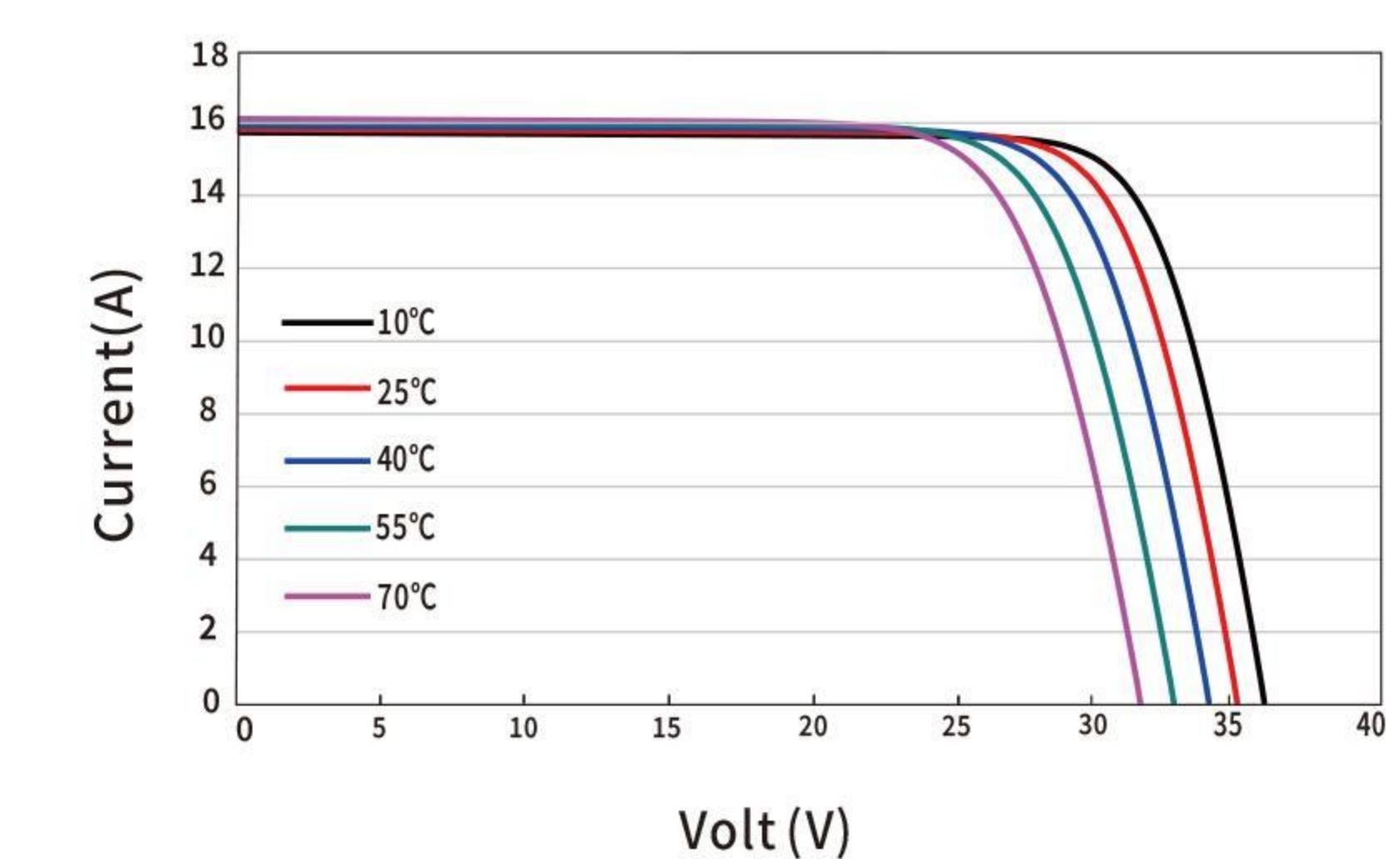
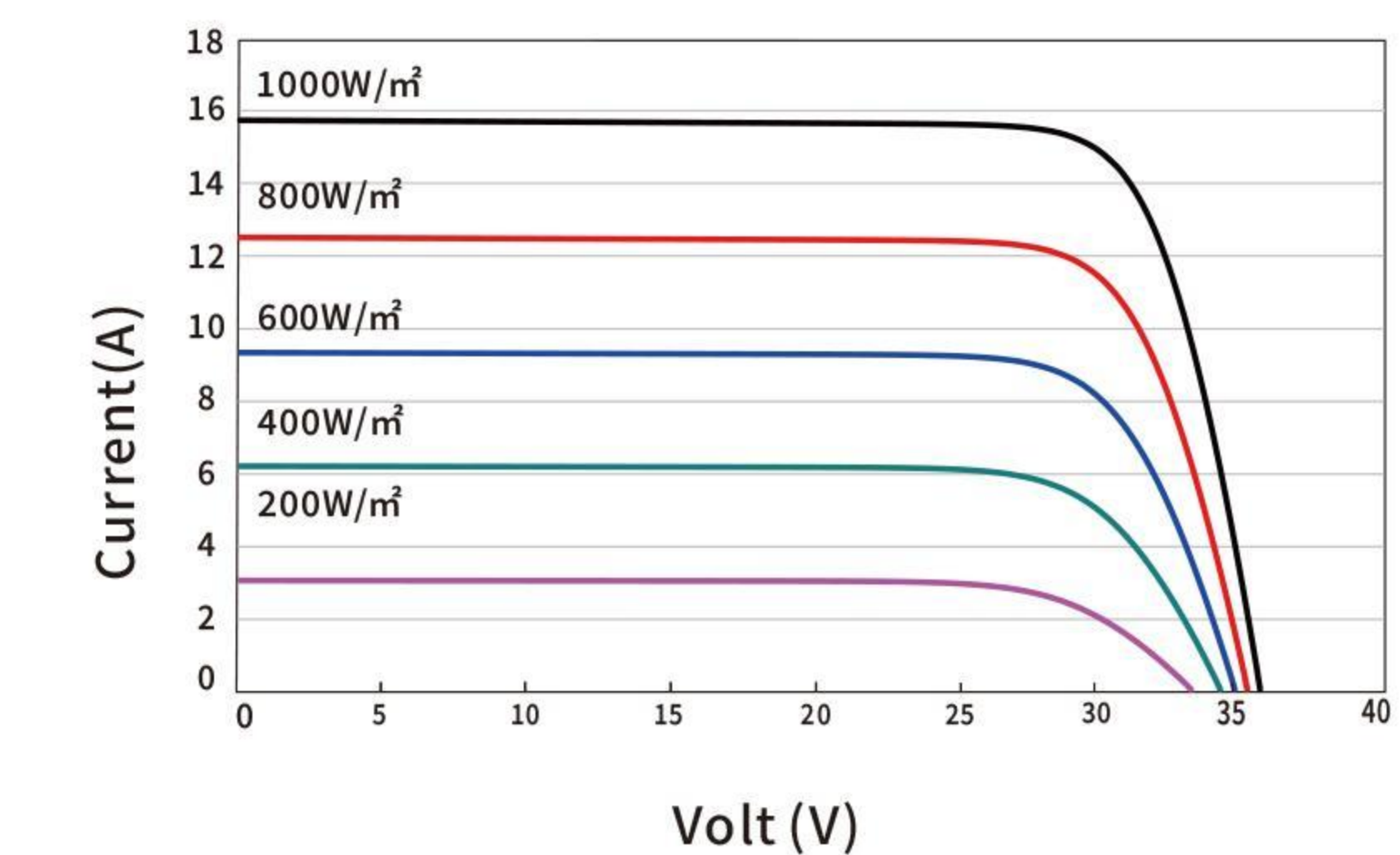


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### • Engineering Drawings •



### • I-V Curve •



### • Packaging Info •

Pieces per Pallet	36
Size of Packaging (mm)	1790*1125*1270
Weight of per Pallet (kg)	925
Pieces per Container	936
Size of Container	40'HC

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