

DA-BW/BB/BT-199

Solar Cell conversion efficiency

Up to 25.4% Tier 1 Solar Cell

30 Years Power Output Warranty

12 Years Material and Workmanship Warranty

Anti-Dust Technology

Minimizes dirt accumulation, reducing cleaning frequency and maintenance costs

HPBC + Anti cracking film Inside

Advanced back contact cell technology for superior efficiency and power output

Durability

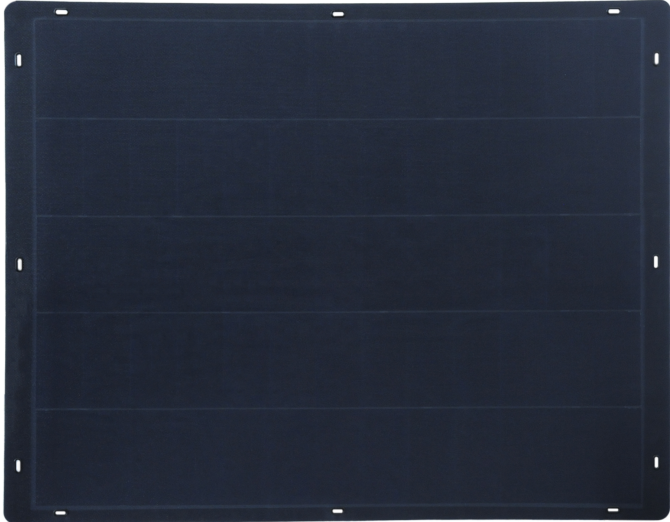
Rigorously tested to withstand extreme conditions, undergoing tests like hail, thermal cycles, and salt spray corrosion

Enhanced Warranties

12-year product warranty and 30-year power output warranty

Prevent glare

While providing good transparency, it can also effectively prevent glare, thus having the effect of preventing dizziness



Key Features The DAITTO 199-Watt Lightweight Monocrystalline Solar Panel achieves compact thickness and extreme lightweight.This solar panel features high efficiency (BC Cells) monocrystalline silicon solar cells.This product promotes renewable energy deployment.

Potential Uses The DAITTO 199-Watt Lightweight Solar Panel is primarily designed for Balcony solar power systems in transportation applications.Applications includepower systems in residential rooftops, RVs, boats, van conversions, and weight sensitive structures.

Product characteristics



Lightweight and ultra-thin design

The component weight is as light as 3.0kg in weight and as thin as 2.5mm, meeting the requirements of various low load projects.



Customization

Products can be customized to meet the needs of different application scenarios.



Ultra high flexibility

With ultra-thin silicon chip and advanced organic polymer materials, the component can perfectly fit various curved roofs.



Easy installation

Due to convenience and quickness, the costs of installation and transport are greatly reduced.



Efficient and reliable

It is improving the battery conversion efficiency. The power generation performance is excellent under low light conditions.

Weak light generates strong electricity, generating an extra hour of electricity in the morning and evening
BC Cell products have fewer composite centers in their components, resulting in a significant increase in relative power generation efficiency under low light conditions, with a maximum of 2.01%

Long lasting and stable quality

- Through various long-term reliability tests
- ISO 9001,CE
- The reliability of components is effectively ensured under EL test before and after lamination.
- Fully automatic production line and the leading photovoltaic technology

Electrical Performance Parameter (STC)

Parameter Name	Unit	DA-BW/BB/BT-199
Maximum power (Pm)	W	199W
Power Deviation	W	0~+3w
Optimal working voltage (Vm)	V	37.83
Optimal working current (Im)	A	5.31
Open-circuit voltage (Voc)	V	44.46
Short-circuit current (Isc)	A	5.586

STC・AM=1.5, Irradiance1000W/㎡, Operating Temperature:25℃

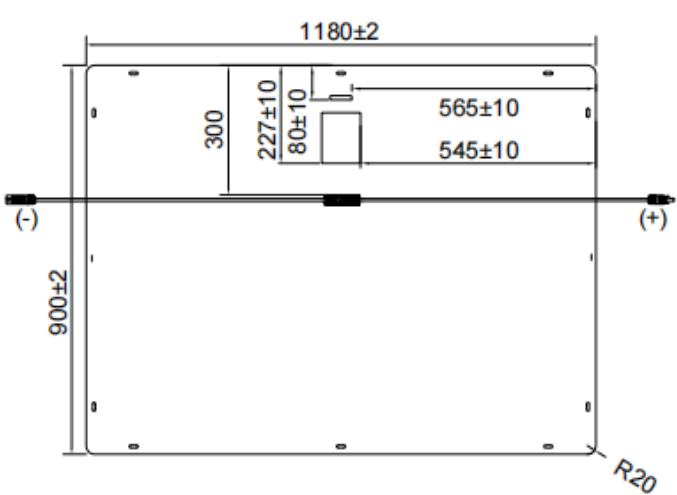
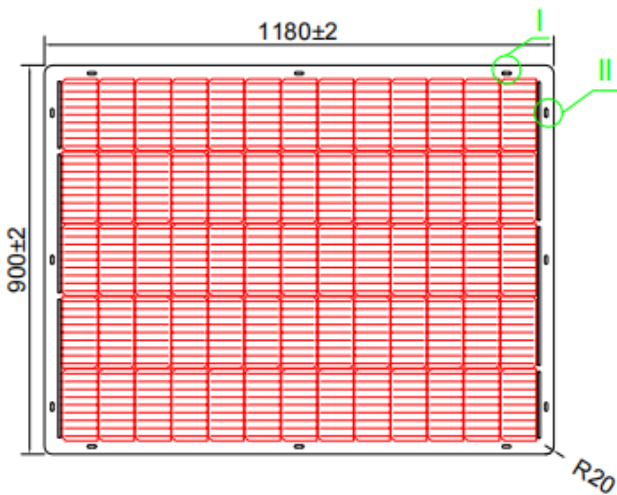
Mechanical

Cell array	166*83*5	Back board colour	Black/White/Transparent
Size	1180*900*2.3mm	Terminal block	Protection grade IP67
Size of 68-piece box	1260X1010X965mm	Cable	4mm ² , Length 700mm
Front film	ETFE front materials	Diode	2
Wind/snow pressure	2400mpa/5400mpa	Weight	3.0KG

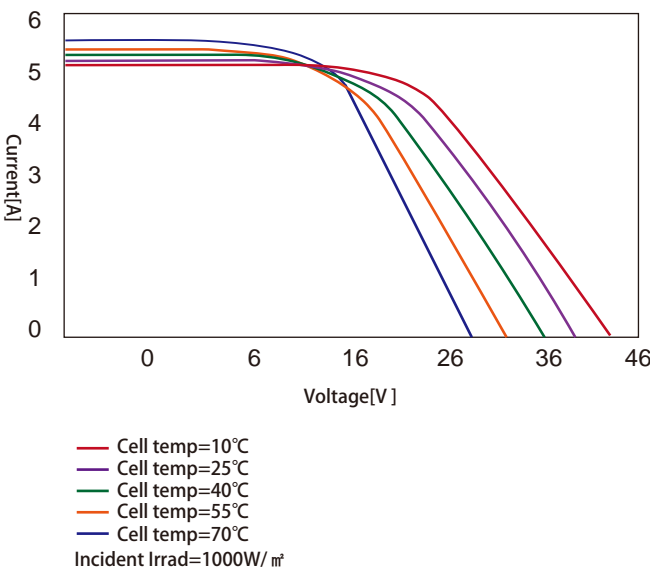
Temperature coefficient

Battery nominal operating temperature	25±2℃	The largest system voltage	DC1500V (IEC)
Current temperature coefficient (Isc)	+0.05%/℃	The largest fuse rated current	20A
Voltage temperature coefficient	-0.32%/℃	Operating temperature range	-40~-+120℃
Power factor (Pm)	-0.40%/℃	Connector	MC Compatible

Working conditions



Temperature curves of current and voltage at different temperatures



Curve of current and voltage/curve of power voltage under different irradiance

