云上新能源
YOURSUN ENERGY

SFBC-17N50D
Bifacial Dual-Glass Module

450-470W

Trisection Cut

Better light utilization and current collection capabilities to effectively improve product power output and reliability

PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Hot-spot Resistance

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient

High Applicability

Perfectly compatible with PERC, TOPCon, HJT and BC technologies

Extreme Aesthetics

The product has smooth appearance and scientific beauty

Proprietary Packaging

The optimized parallel series circuit design reduces shadow occlusion loss, and the maximum component efficiency is 23.52%

Smart Surveillance (optional)

Integrated with self-developed embedded chips, capable of monitoring the operational status of components and performing corresponding shutdown/startup procedures

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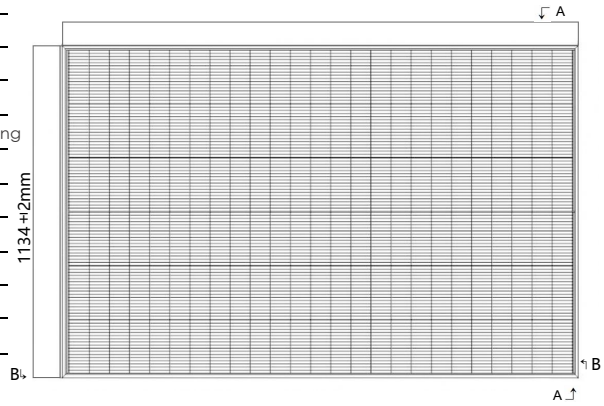
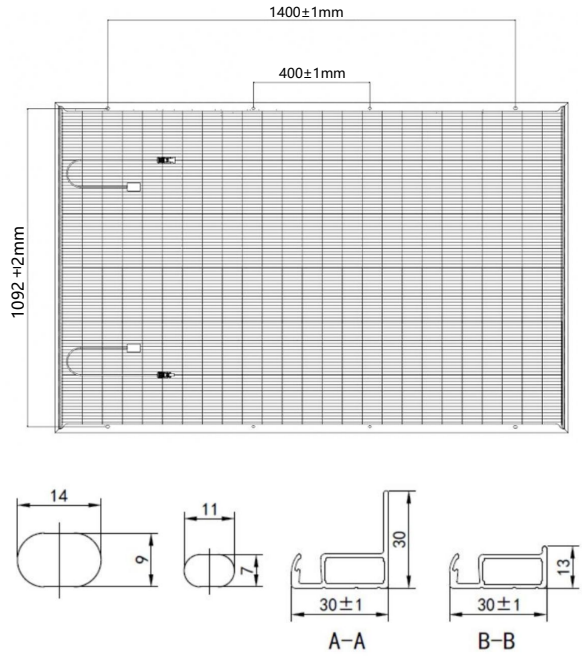
SFBC-17N50D 450-470W

Mechanical Parameter

Cell	N-Type TOPCon technology, triple-cell
No. of cells	50
Dimension	1762×1134×30 mm
Weight	22.0kg
Front cover	2.0 mm high-transmission tempered glass with anti-reflective coating
Back cover	2.0 mm heat-strengthened glass
Module frame	Steel/aluminum profiles
Junction box	IP68 rated,3 bypass diodes
Safety Class	Class II
IEC fire resistance rating	Class C
Connectors	MC 4 compatible
Cable	4.0mm² Customizaton

Engineering Drawing





For specific dimensions and tolerance ranges, please refer to the corresponding module drawings

Packaging Specification

Pallet dimension	2525×1115×1251mm
Loading capacity	1008pcs/40HQ

Electrical Specifications(STC)

Rated maximum power(Pmax) [W]	450	455	460	465	470
Maximum operating voltage (Vmp) [V]	31.27	31.42	31.72	31.87	32.02
Maximum operating current (Imp) [A]	14.39	14.48	14.50	14.59	14.68
Open-circuit voltage (Voc) [V]	36.84	36.99	37.29	37.44	37.59
Short-circuit current (Isc) [A]	15.02	15.11	15.12	15.21	15.29
Module efficiency [%]	22.52	22.77	23.02	23.27	23.52
Temperature coefficient of Pmax	-0.29%				
Temperature coefficient of Voc	-0.25%℃				
Temperature coefficient of Isc	0.045%℃				

Standard Test Conditions (STC):Irradiance 1000W/m2, Ambient temperature 25℃, air mass AM1.5

Electrical Specifications(BNPI)

Rated maximum power(Pmax)[W]	472	475	479	483	487	490
Maximum operating voltage (Vmp)[V]	31.25	31.40	31.55	31.70	31.85	32.00
Maximum operating curent (Imp)[A]	15.09	15.14	15.19	15.23	15.28	15.32
Open-circuit voltage(Voc)[V]	36.82	36.97	37.12	37.27	37.42	37.57
Short-circuit current (Isc)[A]	15.74	15.79	15.84	15.88	15.93	15.98

Bifacial Nominal Operating Conditions(BNPI):Irradiance: Front side 1000 W/m², rear side 135 W/m², ambient temperature 25℃, air mass 1.5

Linear power output warranty

Operating Condition

Operating temperature	-40℃~+70℃
Maximum system voltage	1500VDC(IEC)
Maximum series fuse rating	30A
Bifaciality	φVoc:98±5%,φIsc:80±5%,φPmax:80±5%

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