



Sodenergy

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High **HJT** Module

SDM-M108-BD450

430W | 435W | 440W | 445W | 450W

450W
Maximum Power Output

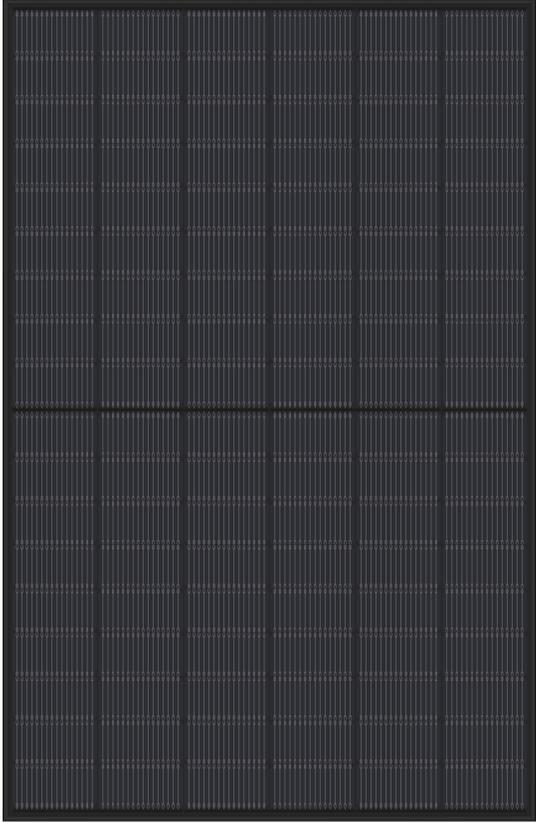
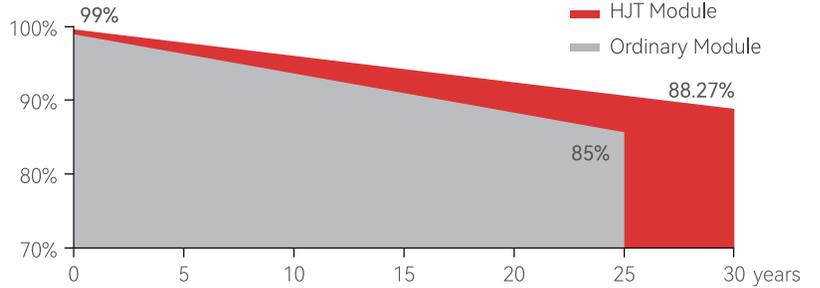
23.02%
Maximum Efficiency

90%+
Bifaciality

15 Years
Product Warranty

30 Years
Linear Power Warranty

Quality Assurance



Product Features

- SMBB Half Cell**
Multi-busbar half-cell design, higher module efficiency and power output
- G10 Cell / Module**
G10 size wafer, applicable to multiple scenarios
- High Reliability**
Certified mechanical performance up to 5400 Pa positive load and 2400 Pa negative load, with better protection against harsh weather

- High Energy Yield**
Maximum Module Efficiency up to 23.02% achieved by mature mass production HJT cell technology
- Better Warranty**
Extremely low LID/PID in longer service life, with 11.73% power degradation over 30 years
- Higher Performance**
Excellent weak light performance and lower temperature coefficient, resulting in better energy yield in all-weather

Certificates



Electrical Data(STC)

Model	SDM-M108-BD430	SDM-M108-BD435	SDM-M108-BD440	SDM-M108-BD445	SDM-M108-BD450
Pmax(Wp)	430	435	440	445	450
Voc(V)	40.28	40.41	40.51	40.65	40.80
Isc(A)	13.05	13.10	13.16	13.22	13.30
Vmpp(V)	34.49	34.69	34.90	35.13	35.33
Imp(A)	12.47	12.54	12.61	12.67	12.74
Efficiency	21.99%	22.25%	22.51%	22.77%	23.02%

STC: AM1.5 Irradiance: 1000W/m², Temperature=25°C

Electrical Characteristics(BSTC)

Model	GSM-MH4/108-BHDG430	GSM-MH4/108-BHDG435	GSM-MH4/108-BHDG440	GSM-MH4/108-BHDG445	GSM-MH4/108-BHDG450
Pmax(Wp)	473	479	484	490	495
Voc(V)	40.28	40.41	40.51	40.65	40.80
Isc(A)	14.36	14.41	14.48	14.54	14.63
Vmpp(V)	34.49	34.69	34.90	35.13	35.33
Imp(A)	13.72	13.79	13.87	13.94	14.01

αIsc (%/K): 0.04; βVoc (%/K): -0.24; γPmp (%/K): -0.24

BSTC: AM1.5, Front irradiance: 1000W/m², Back Irradiance135W/m², Temperature=25°C

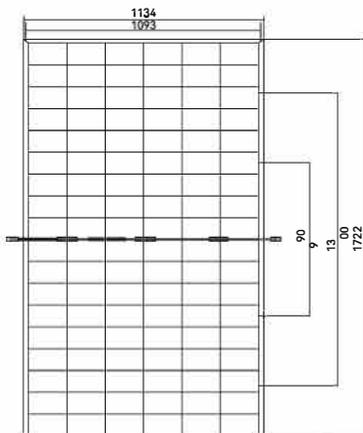
Mechanical Data

Cell(mm)	182×91
Weight(kg)	24.5±0.5kg
Dimension(L×W×H)(mm)	1724×1134×30mm
Cable(mm)	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration (40' Container; 17.5' Trailer)	36pcs/pallet; 26pallet/container; 936pcs/container 36pcs/pallet; 32pallet/Trailer; 1152pcs/Trailer

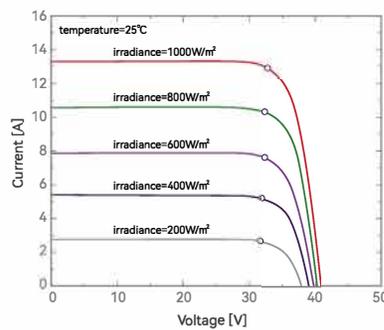
Working Condition

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rating	30A
Rear Side Mechanical Load	2400Pa
Front Side Mechanical Load	5400Pa
NOCT	44±2°C
Safety Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

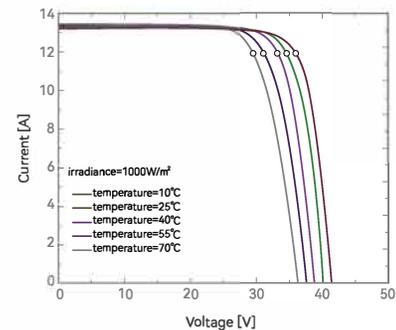
Dimensions (mm)



I-V Diagram



Different Irradiance



Different Temperature

*If the data is subject to change, the latest release shall prevail.

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