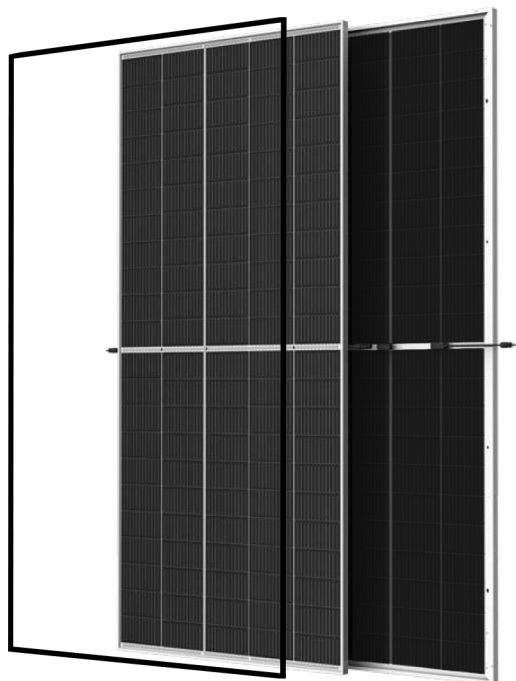




12 Years
Product
Warranty

30 Years
Linear Power
Warranty

High **HJT** Module

NPA-108-SDGDC 450

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

450W

Maximum
Power Output

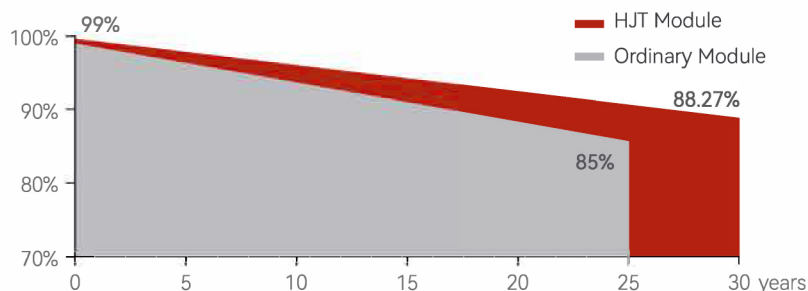
23.02%

Maximum
Efficiency

90%+

Bifaciality

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



JP-AC

Electrical Data(STC)

Model	NPA-108-SDGDC-430	NPA-108-SDGDC-435	NPA-108-SDGDC-440	NPA-108-SDGDC-445	NPA-108-SDGDC-450
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	NPA-108-SDGDC-430	NPA-108-SDGDC-435	NPA-108-SDGDC-440	NPA-108-SDGDC-445	NPA-108-SDGDC-450
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

 $\alpha_{sc} (\%/K): 0.04$; $\beta_{Voc} (\%/K): -0.24$; $\gamma_{Pmp} (\%/K): -0.24$

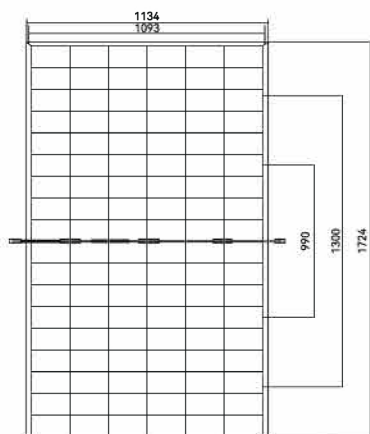
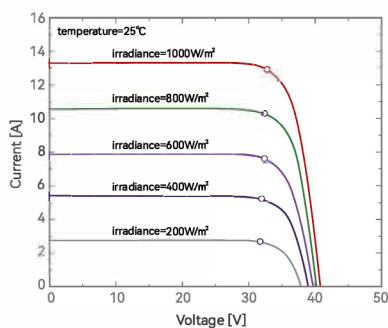
BSTC: AM1.5, Front irradiance: 1000W/m², Back Irradiance 135W/m², Temperature=25°C

Mechanical Data

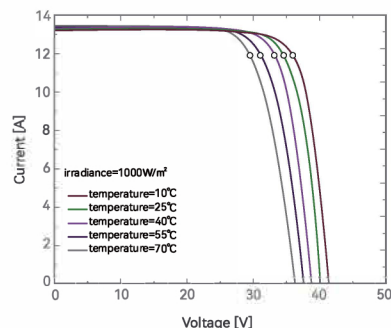
Cell(mm)	182×91
Weight(kg)	24.5±0.5kg
Dimension(L×W×H)(mm)	1724×1134×30mm
Cable(mm)	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration (40'Container; 17.5'Trailer)	36pcs/pallet; 26pallet/container; 936pcs/container 36pcs/pallet;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