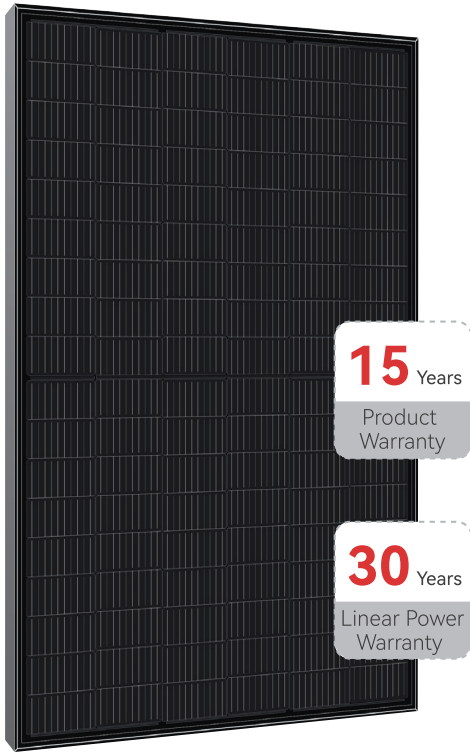


High **HJT** Module

GSM-MH4/108-HDGB440

420W | 425W | 430W | 435W | 440W

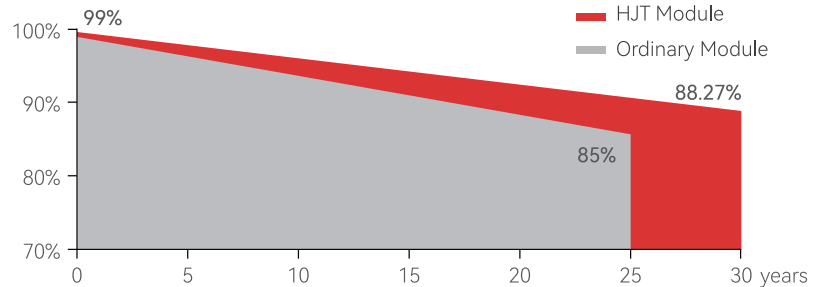


440W
Maximum Power Output

22.51%
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 22.51% 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



Electrical Data(STC)

Model	GSM-MH4/108-HDGB420	GSM-MH4/108-HDGB425	GSM-MH4/108-HDGB430	GSM-MH4/108-HDGB435	GSM-MH4/108-HDGB440
Pmax(Wp)	420	425	430	435	440
Voc(V)	40.20	40.31	40.41	40.53	40.64
Isc(A)	13.01	13.07	13.12	13.17	13.23
Vmpp(V)	34.13	34.36	34.57	34.75	34.95
Imp(A)	12.31	12.37	12.44	12.52	12.59
Efficiency	21.48%	21.74%	21.99%	22.25%	22.51%

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

Electrical Characteristics(BSTC)

Model	GSM-MH4/108-HDGB420	GSM-MH4/108-HDGB425	GSM-MH4/108-HDGB430	GSM-MH4/108-HDGB435	GSM-MH4/108-HDGB440
Pmax(Wp)	462	468	473	479	484
Voc(V)	40.20	40.31	40.41	40.53	40.64
Isc(A)	14.31	14.38	14.43	14.49	14.55
Vmpp(V)	34.13	34.36	34.57	34.75	34.95
Imp(A)	13.54	13.61	13.68	13.77	13.85

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

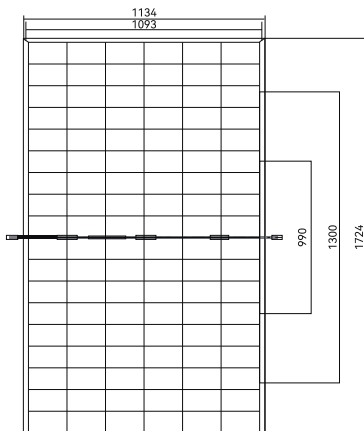
 BSTC: AM1.5, Front irradiance: 1000W/m², Back Irradiance 135W/m², Temperature=25°C

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
