

High Efficiency
HJT Module

GSM- MH4/108- BHDG440

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



440W
Maximum Power Output

85%
Bifaciality

22.51%
Maximum Efficiency

30YEAR
Linear Power Warranty

Product Features



SMBB Half Cell
Multi-busbar half-cell design, higher module efficiency and power output



High Energy Yield
Maximum Module Efficiency up to 22.51% achieved by mature mass production HJT cell technology



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



Higher Performance
Lower temperature coefficient and low operation temperature, resulting in better energy yield in all-weather

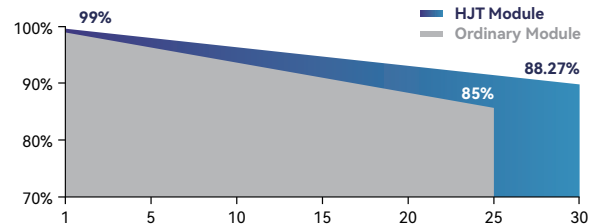


Better Warranty
Extremely low LID/PID in longer service life, less than 11.73% power degradation in 30 years

Quality Assurance

12 Years Product Warranty

30 Years Linear Power Warranty



Certificates



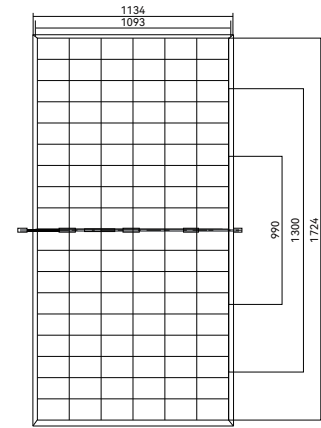
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Mechanical Data

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; 26pallets/container; 936pcs/container 36pcs/pallet; 32pallets/Trailer; 1152pcs/Trailer



Electrical Data(STC)

Model	GSM-MH4/108-BHDG420	GSM-MH4/108-BHDG425	GSM-MH4/108-BHDG430	GSM-MH4/108-BHDG435	GSM-MH4/108-BHDG440
Pmax(Wp)	420	425	430	435	440
Voc(V)	39.80	40.05	40.30	40.55	40.80
Isc(A)	13.18	13.23	13.28	13.33	13.38
Vmpp(V)	33.04	33.29	33.54	33.79	34.04
Impp(A)	12.73	12.78	12.83	12.88	12.93
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-BHDG420	GSM-MH4/108-BHDG425	GSM-MH4/108-BHDG430	GSM-MH4/108-BHDG435	GSM-MH4/108-BHDG440
Pmax(Wp)	466	471	476	480	485
Voc(V)	39.80	40.05	40.30	40.55	40.80
Isc(A)	14.59	14.63	14.67	14.71	14.75
Vmpp(V)	33.04	33.29	33.54	33.79	34.04
Impp(A)	14.10	14.14	14.18	14.22	14.26

αsc (%/K) : 0.04; βVoc (%/K) : -0.24; γPmp (%/K) : -0.26

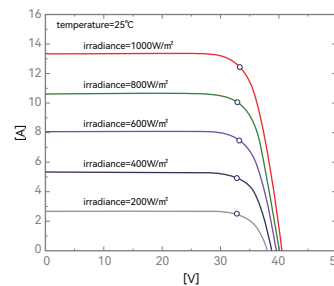
AM1.5, Front irradiance: 1000W/m², Back irradiance: 135W/m², Temperature=25°C, Wind speed=1m/s

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 Class	Class II
Grounding Electric Conductivity	< 0.1Ω

I-V Diagram

(Different Irradiance)



I-V Diagram

(Different Temperature)

