



High Efficiency **HJT** Module

GSM-MH2/96-BHDG460

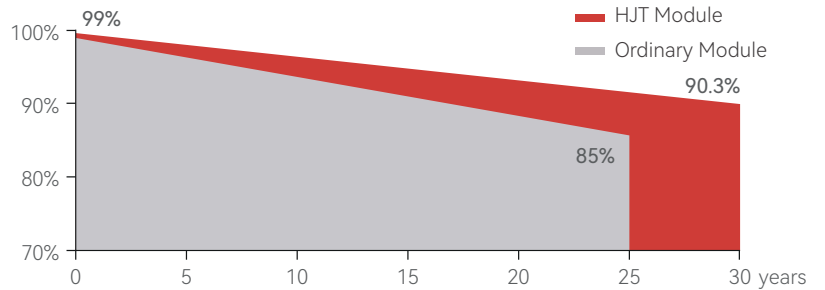
440W | 445W | 450W | 455W | 460W

460W
Maximum Power Output



23.02%
Maximum Efficiency

90%+
Bifaciality

Quality Assurance



Product Features

- 
Industry-Leading Process Technology
Advanced HJT cell/module design, higher reliability and outstanding performance
- 
Rectangular HJT Cells
Innovative rectangular silicon wafer, Lowering integrated costs while enhancing yields
- 
Versatile Adaptability
Adaptable to various scenarios, expanding application possibilities and enriching product offerings

- 
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 9.7% power degradation over 30 years
- 
Maximized Space Utilization
Optimized dimensions maximize container space utilization, achieving up to 98.5% utilization rate

Certificates



Electrical Data(STC)

Model	GSM-MH2/96-BHDG440	GSM-MH2/96-BHDG445	GSM-MH2/96-BHDG450	GSM-MH2/96-BHDG455	GSM-MH2/96-BHDG460
Pmax(Wp)	440	445	450	455	460
Voc(V)	36.56	36.79	37.01	37.27	37.52
Isc(A)	15.24	15.29	15.35	15.40	15.45
Vmpp(V)	30.39	30.61	30.83	31.05	31.27
Imp(A)	14.48	14.54	14.60	14.66	14.72
Efficiency	22.02%	22.27%	22.52%	22.77%	23.02%

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

Electrical Characteristics(BSTC)

Model	GSM-MH2/96-BHDG440	GSM-MH2/96-BHDG445	GSM-MH2/96-BHDG450	GSM-MH2/96-BHDG455	GSM-MH2/96-BHDG460
Pmax(Wp)	490	495	500	505	510
Voc(V)	36.56	36.79	37.01	37.27	37.52
Isc(A)	16.99	17.04	17.10	17.15	17.20
Vmpp(V)	30.39	30.61	30.83	31.05	31.27
Imp(A)	16.13	16.18	16.24	16.30	16.36

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

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

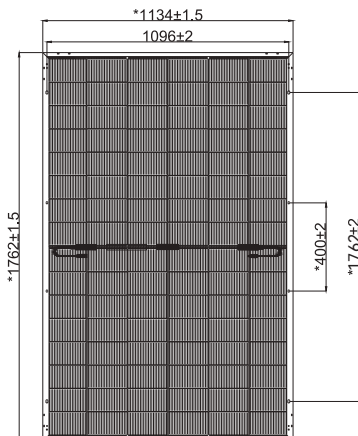
Mechanical Data

Cell(mm)	182×105
Weight(kg)	26.0±0.5kg
Dimension(L×W×H)(mm)	1762×1134×30mm
Cable(mm)	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration	1008pcs/40'HQ; 1008pcs/13'Trailer; 1296pcs/17.5'Trailer

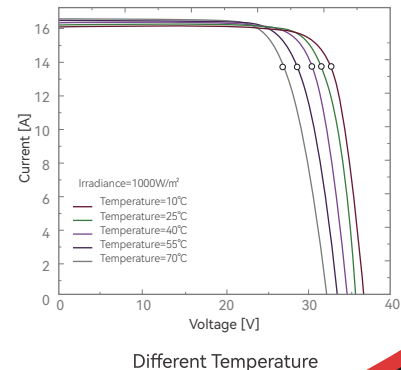
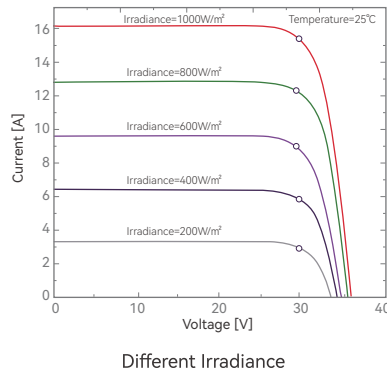
Working Condition

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



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

