

15 Years
Product
Warranty

30 Years
Linear Power
Warranty

High Efficiency **HJT** Module

GSM-MH2/132-BHDG640

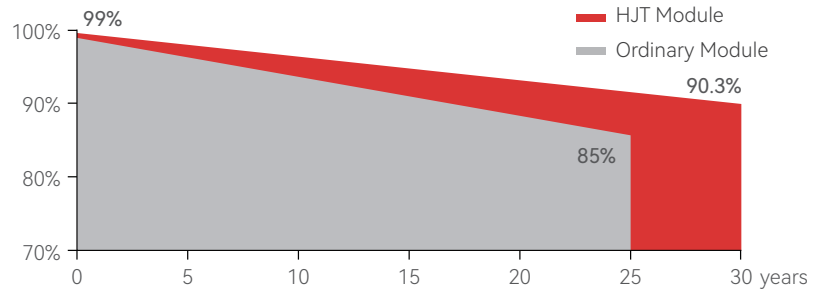
620W | 625W | 630W | 635W | 640W

640W
Maximum
Power Output


23.69%
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 23.69% 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-MH2/132-BHDG620	GSM-MH2/132-BHDG625	GSM-MH2/132-BHDG630	GSM-MH2/132-BHDG635	GSM-MH2/132-BHDG640
Pmax(Wp)	620	625	630	635	640
Voc(V)	49.42	49.57	49.73	49.88	49.89
Isc(A)	15.17	15.22	15.28	15.34	15.42
Vmpp(V)	42.73	42.87	43.04	43.20	43.37
Imp(A)	14.51	14.58	14.64	14.70	14.76
Efficiency	22.95%	23.14%	23.32%	23.51%	23.69%

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

Electrical Characteristics(BSTC)

Model	GSM-MH2/132-BHDG620	GSM-MH2/132-BHDG625	GSM-MH2/132-BHDG630	GSM-MH2/132-BHDG635	GSM-MH2/132-BHDG640
Pmax(Wp)	682	688	693	699	704
Voc(V)	49.42	49.57	49.73	49.88	49.89
Isc(A)	16.69	16.74	16.81	16.87	16.96
Vmpp(V)	42.73	42.87	43.04	43.20	43.37
Imp(A)	15.96	16.04	16.10	16.17	16.24

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

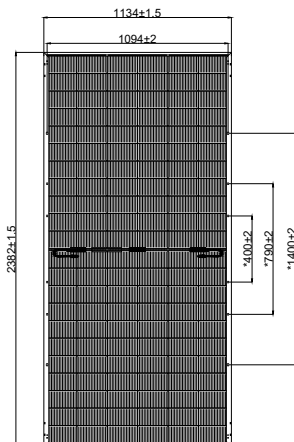
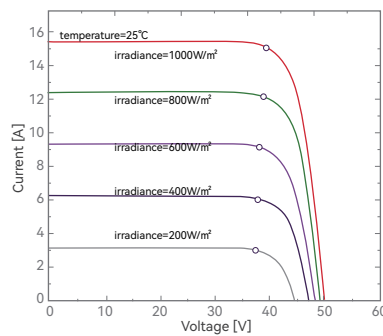
 AM1.5, Front irradiance: 1000W/m², Back Irradiance135W/m², Temperature=25°C

Mechanical Data

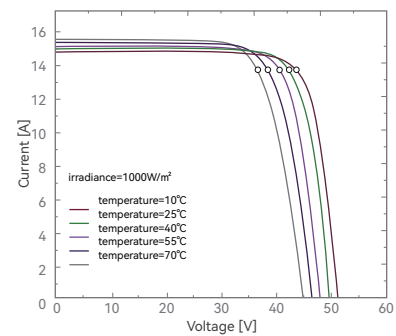
Cell(mm)	182×105
Weight(kg)	33.6±0.5kg
Dimension(L×W×H)(mm)	2382×1134×30mm
Cable(mm)	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration (40' Container; 17.5' Trailer)	36pcs/pallet; 20pallet/container; 720pcs/container 36pcs/pallet; 24pallet/Trailer; 864pcs/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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