Grand Sunergy

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High Efficiency HJT Module

GSM-MH2/108-BHDG520

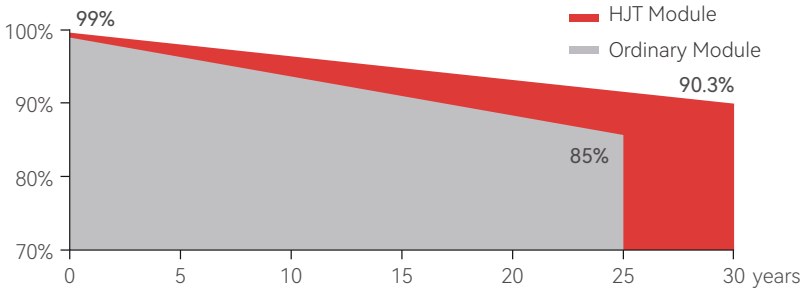
500W | 505W | 510W | 515W | 520W

520W
Maximum Power Output

23.40%
Maximum Efficiency

90%+
Bifaciality

Quality Assurance



Product Features

Industry-Leading Process Technology
Advanced HJT cell/module design, higher reliability and outstanding performance

High Energy Yield
Maximum Module Efficiency up to 23.40% achieved by mature mass production HJT cell technology

Rectangular HJT Cells
G12R
Innovative rectangular silicon wafer,Lowering integrated costs while enhancing yields

Better Warranty
Extremely low LID/PID in longer service life, with 9.7% power degradation iover 30 years

Versatile Adaptability
Adaptable to various scenarios, expanding application possibilities and enriching product offerings

Maximized Space Utilization
Optimized dimensions maximize container space utilization, achieving up to 98.5% utilization rate

Certificates

JP-AC

Grand Sunergy

GSM-MH2/108-BHDG 500-520 W

Electrical Data(STC)

Model	GSM-MH2/108-BHDG500	GSM-MH2/108-BHDG505	GSM-MH2/108-BHDG510	GSM-MH2/108-BHDG515	GSM-MH2/108-BHDG520
Pmax(Wp)	500	505	510	515	520
Voc(V)	41.68	41.83	41.98	42.13	42.18
Isc(A)	15.41	15.46	15.51	15.56	16.01
Vmpp(V)	34.37	34.50	34.61	34.73	34.86
Impp(A)	14.55	14.64	14.75	14.82	14.91
Efficiency	22.50%	22.72%	22.95%	23.17%	23.40%

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

Electrical Characteristics(BSTC)

Model	GSM-MH2/108-BHDG500	GSM-MH2/108-BHDG505	GSM-MH2/108-BHDG510	GSM-MH2/108-BHDG515	GSM-MH2/108-BHDG520
Pmax(Wp)	560	565	570	575	580
Voc(V)	41.68	41.83	41.98	42.13	42.18
Isc(A)	17.18	17.23	17.28	17.33	17.85
Vmpp(V)	34.37	34.51	34.61	34.73	34.86
Impp(A)	16.30	16.39	16.47	16.54	16.63
αIsc (%/K): 0.04; βVoc (%/K): -0.24; γPmp (%/K): -0.24					

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

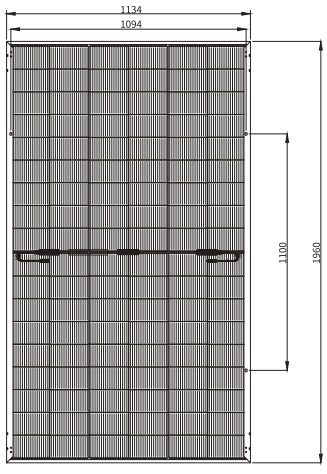
Mechanical Data

Cell(mm)	182×105
Weight(kg)	28.6±0.5kg
Dimension(L×W×H)(mm)	1960×1134×30mm
Cable(mm)	4mm², 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packaging configuration (40'Container; 17.5'Trailer)	864pcs/40'HQ; 864pcs/13'Trailer; 1080pcs/17.5'Trailer

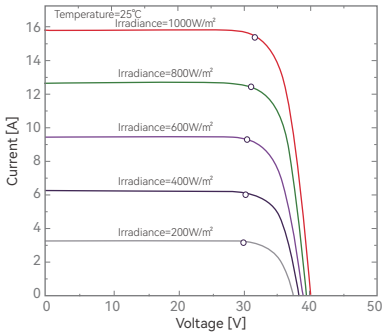
Working Condition

Maximum System Voltage	1500VDC
Operating Temperature	-40℃ ~ +85℃
Maximum Fuse Rating	30A
Rear Side Mechanical Load	2400Pa
Front Side Mechanical Load	5400Pa
NOCT	44±2℃
Safety Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

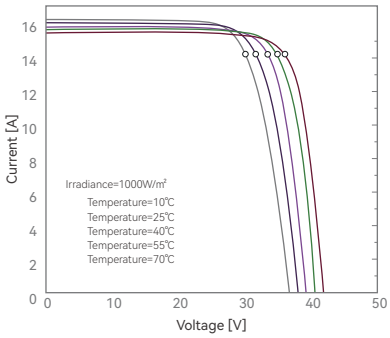
Dimensions (mm)



I-V Diagram



Different Irradiance



Different Temperature

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