

High Efficiency
HJT Module

GSM- MH4/132- BHDG550

530W | 535W | 540W
545W | 550W



550W
Maximum Power Output

85%
Bifaciality

23.10%
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 23.10% 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

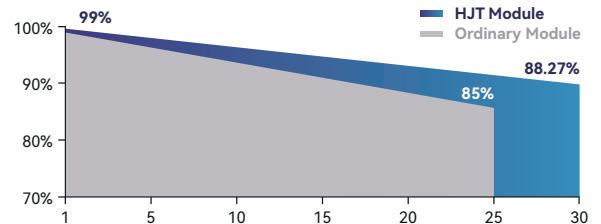


Better Warranty
Extremely low LID/PID in longer service life, less than 11.73% power degradation in 30 years

Quality Assurance

15 Years Product Warranty

30 Years Linear Power Warranty



Certificates



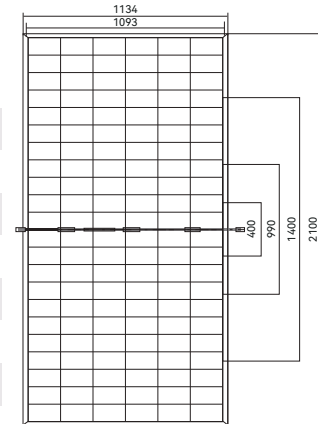
Guosheng Energy Co., Ltd.

Web: www.grandsunergy.com E-mail: sales@grandsunergy.com

Add: West Side to Zhongjing 7th Road, South Side to Pengcheng Boulevard, Xuzhou Industrial Park, Xuzhou City, Jiangsu Province

Mechanical Data

Cell(mm)	182×91
Weight(kg)	31.5±0.5kg
Dimension(L×W×H)(mm)	2100×1134×30mm
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; 22pallets/container; 792pcs/container 36pcs./pallet; 25pallet / Trailer; 900pcs / Trailer



Electrical Data(STC)

Model	GSM-MH4/132-BHDG530	GSM-MH4/132-BHDG535	GSM-MH4/132-BHDG540	GSM-MH4/132-BHDG545	GSM-MH4/132-BHDG550
Pmax(Wp)	530	535	540	545	550
Voc(V)	49.39	49.58	49.77	49.96	50.15
Isc(A)	13.35	13.40	13.45	13.50	13.55
Vmpp(V)	41.20	41.41	41.62	41.84	42.04
Impp(A)	12.88	12.94	12.99	13.04	13.09
Efficiency	22.26%	22.47%	22.68%	22.89%	23.10%

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

Electrical Characteristics(BSTC)

Model	GSM-MH4/132-BHDG530	GSM-MH4/132-BHDG535	GSM-MH4/132-BHDG540	GSM-MH4/132-BHDG545	GSM-MH4/132-BHDG550
Pmax(Wp)	587	591	596	601	605
Voc(V)	49.39	49.58	49.77	49.96	50.15
Isc(A)	14.75	14.79	14.83	14.87	14.91
Vmpp(V)	41.20	41.41	41.62	41.83	42.04
Impp(A)	14.24	14.28	14.32	14.36	14.40

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

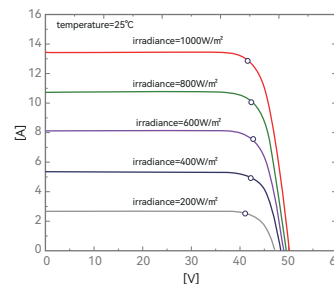
AM1.5, Front irradiance: 1000W/m², Back irradiance: 135W/m², Temperature=25°C, Wind speed=1m/s

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)

