

High Efficiency  
Bifacial PERC Module

# GSM- MP4/132- BMDG505

485W | 490W | 495W  
500W | 505W



**505W**  
Maximum Power Output

**65+5%**  
Bifaciality

**21.21%**  
Maximum Efficiency

**30Years**  
Linear Power Warranty

## Product Features



### MBB Half Cell

Multi-busbar half cell design, together with many other technologies to increase module power and efficiency



### High Energy Yield

High density interconnection technology optimizes module efficiency up to 21.21%



### M10 Cell/Module

M10 size cell and module, 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

Low temperature coefficient, low operating temperature, more energy yield



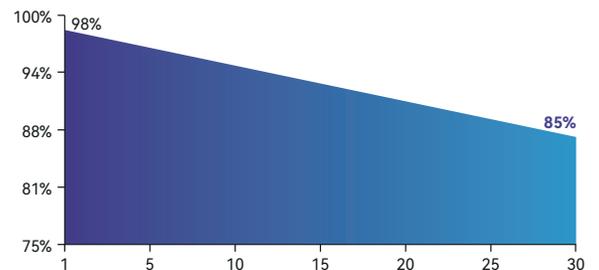
### Better Warranty

Low LID/PID in longer service life, less than 15% power degradation in 30 years

## Quality Assurance

**12** Years Product Warranty

**30** Years Linear Power Warranty



## Certificates



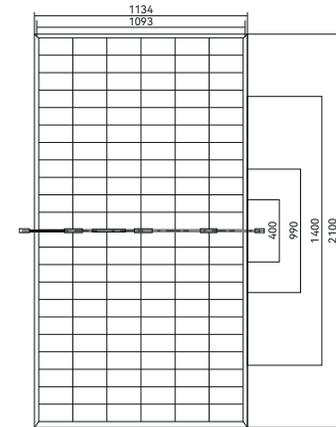
Guosheng Energy Co., Ltd.

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## Mechanical Data

Cell(mm)	182×91
Weight(kg)	31.5±0.5kg
Dimension(L×W×H)(mm)	2100×1134×30mm
Cable(mm)	4mm <sup>2</sup> , 300mm(customized length based on needs)
Frame	anodized aluminum
Junction Box	IP68, 1500VDC, 3 Diodes, Connector Type:GT4 Changzhou Greateen New Energy Technology Co., Ltd.,
Packaging Configuration (40'Container; 17.5'Trailer)	36pcs./Pallet; 22pallet/container; 792pcs/container 36pcs./Pallet; 25pallet/trailer; 900pcs/trailer



## Electrical Data (STC)

Binning tolerance: 0-+5W, Power production tolerance: ±3%, Voc tolerance: ±3%, Isc tolerance: ±3%

Model	GSM-MP4/132-BMDG485	GSM-MP4/132-BMDG490	GSM-MP4/132-BMDG495	GSM-MP4/132-BMDG500	GSM-MP4/132-BMDG505
Pmax(Wp)	485	490	495	500	505
Voc(V)	45.03	45.18	45.33	45.48	45.63
Isc(A)	13.71	13.78	13.85	13.92	14.01
Vmpp(V)	37.26	37.35	37.44	37.53	37.58
Impp(A)	13.04	13.14	13.24	13.34	13.44
Efficiency	20.37%	20.58%	20.79%	21.00%	21.21%

STC: AM1.5 Irradiance: 1000W/m<sup>2</sup> Temperature=25°C

## Electrical Characteristics (NOCT)

Model	GSM-MP4/132-BMDG485	GSM-MP4/132-BMDG490	GSM-MP4/132-BMDG495	GSM-MP4/132-BMDG500	GSM-MP4/132-BMDG505
Pmax(Wp)	361	364	367	371	375
Voc(V)	40.80	40.95	41.10	41.26	41.41
Isc(A)	11.21	11.26	11.31	11.36	11.40
Vmpp(V)	35.19	35.22	35.26	35.30	35.34
Impp(A)	10.25	10.33	10.43	10.50	10.65

αIsc (%/K) : 0.05; βVoc (%/K) : -0.265; γPmp (%/K) : -0.34

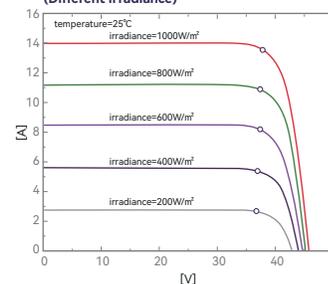
NMOT standard: AM1.5 Front irradiance: 800W/m<sup>2</sup> Temperature=20°C Wind speed=1m/s

## 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)

