

High Efficiency
Bifacial PERC Module

GSM- MP4/132- BMDG505

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

505W
Maximum Power Output

75%
Bifaciality

21.21%
Maximum Efficiency

30Years
Linear Power Warranty

Product Features



10BB 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



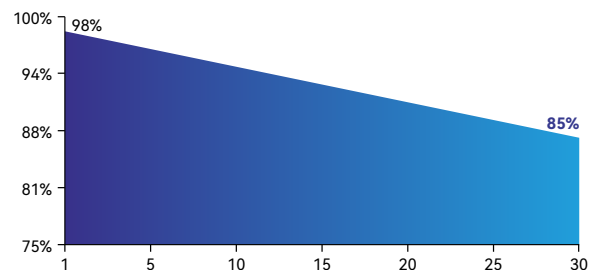
Better Warranty

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



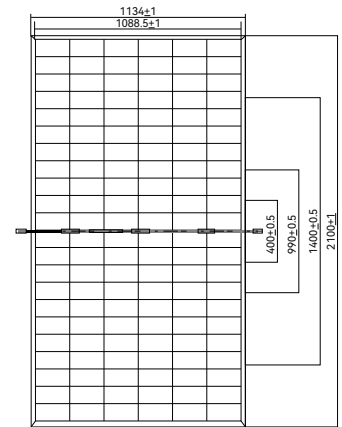
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Mechanical Data

| | |
|---|---|
| Cell(mm) | 182×91 |
| Weight(kg) | 31.5±0.5kg |
| Dimension(L×W×H)(mm) | 2100×1134×35mm |
| Cable(mm) | 4mm ² , 300mm(customized length based on needs) |
| Frame | anodized aluminum |
| Junction Box | IP68, 1500VDC, 3 Diodes |
| Packaging Configuration (40'Container; 17.5'Trailer) | 31pcs./Pallet; 22pallet/container; 682pcs/container 31pcs/pallet, 28pallet / Trailer, 868pcs / Trailer |



Electrical Data (STC)

| 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/m² Temperature=25°C

Electrical Characteristics (NMOT)

| 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 |

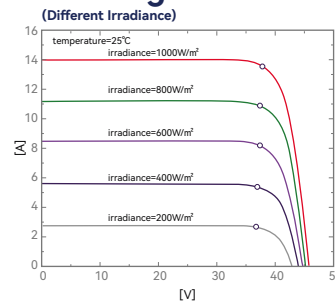
$\alpha_{isc} (\%/K) : 0.05$; $\beta_{Voc} (\%/K) : -0.265$; $\gamma_{Pmp} (\%/K) : -0.34$

NMOT standard: AM1.5 Front irradiance: 800W/m² 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 |
| Safty Class | Class II |
| Grounding Electric Conductivity | < 0.1Ω |

I-V Diagram



I-V Diagram

