

High Efficiency
PERC Module

GSM- MP4/108- M415

395W | 400W | 405W
410W | 415W



415W
Maximum Power Output

21.23%
Maximum Efficiency

25Years
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 21.23%



M10 Cell/Module

M10 size cell and module, applicable for 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



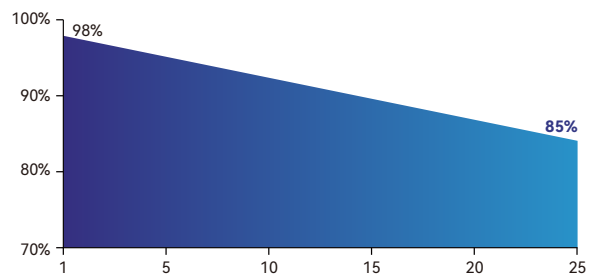
Fire Safety Class:

Class C according to UL790

Quality Assurance

12 Years Product Warranty

25 Years Linear Power Warranty

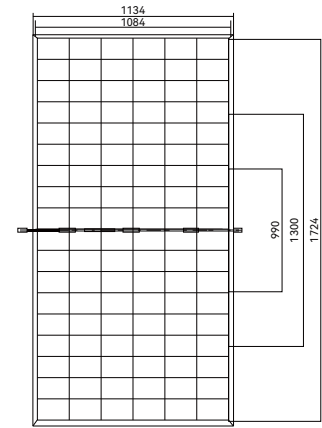


Certificates



Mechanical Data

Cell(mm)	182×91
Weight(kg)	21.0±0.5kg
Dimension(L×W×H)(mm)	1724×1134×35mm
Cable(mm)	4mm ² , 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)	31pcs/pallet, 17pallets/container, 527pcs/container 31pcs/pallet, 26pallet / Trailer, 806pcs / Trailer



Electrical Data (STC)

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

Model	GSM-MP4/108-M395	GSM-MP4/108-M400	GSM-MP4/108-M405	GSM-MP4/108-M410	GSM-MP4/108-M415
Pmax(Wp)	395	400	405	410	415
Voc(V)	36.90	36.98	37.06	37.14	37.22
Isc(A)	13.71	13.78	13.85	13.92	14.01
Vmpp(V)	30.32	30.42	30.52	30.62	30.79
Impp(A)	13.03	13.15	13.27	13.39	13.48
Efficiency	20.20%	20.46%	20.72%	20.97%	21.23%

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

Electrical Characteristics (NOCT)

Model	GSM-MP4/108-M395	GSM-MP4/108-M400	GSM-MP4/108-M405	GSM-MP4/108-M410	GSM-MP4/108-M415
Pmax(Wp)	294	297	300	304	308
Voc(V)	33.43	33.52	33.61	33.69	33.78
Isc(A)	11.21	11.26	11.31	11.36	11.40
Vmpp(V)	28.69	28.71	28.73	28.83	28.92
Impp(A)	10.25	10.34	10.45	10.54	10.64

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

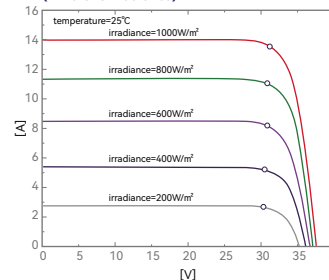
NMOT standard: AM1.5 Front irradiance: 800W/m² Temperature=20°C Wind speed=1m/s

Working Condition

Maximum System Voltage	1500VDC
Operating Temperature	-40°C ~ +85°C
Maximum Fuse Rating	25A
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)

