



Grand Sunergy

High TOPCon
Module

GSM- MT4/144- BTDG575

555W | 560W | 565W
570W | 575W



575W
Maximum Power Output

80±5%
Bifaciality

22.26%
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 22.26% achieved by mature mass production HJT cell technology



M10 Cell / Module

M10 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



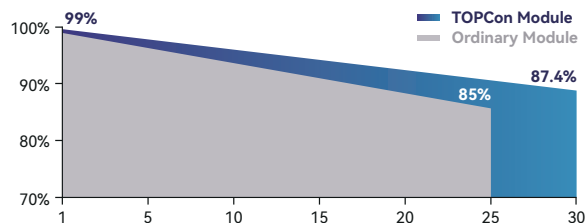
Better Warranty

Extremely low LID/PID in longer service life, less than 12.6% power degradation in 30 years

Quality Assurance

12 Years Product Warranty

30 Years Linear Power Warranty



Certificates



Guosheng Energy Co., Ltd.

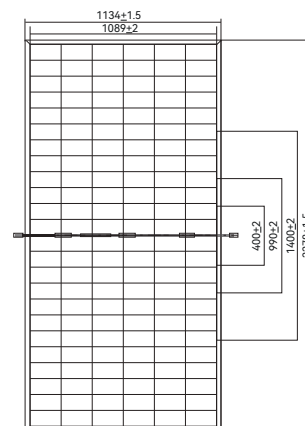
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Add: West Side to Zhongjing 7th Road, South Side to Pengcheng Boulevard, Xuzhou Industrial Park, Xuzhou City, Jiangsu Province



Mechanical Data

Cell(mm)	182×91
Weight(kg)	33.5±0.5kg
Dimension(L×W×H)(mm)	2278×1134×30mm
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; 20pallets/container; 720pcs/container 24pallet/Trailer; 864pcs/Trailer



Electrical Data(STC)

Model	GSM-MT4/144-BTDG555	GSM-MT4/144-BTDG560	GSM-MT4/144-BTDG565	GSM-MT4/144-BTDG570	GSM-MT4/144-BTDG575
Pmax(Wp)	555	560	565	570	575
Voc(V)	50.49	50.69	50.89	51.09	51.29
Isc(A)	14.05	14.11	14.17	14.23	14.29
Vmpp(V)	41.82	41.98	42.17	42.32	42.47
Impp(A)	13.28	13.34	13.40	13.47	13.54
Efficiency	21.48%	21.68%	21.87%	22.07%	22.26%

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

Electrical Characteristics(NOCT)

Model	GSM-MT4/144-BTDG555	GSM-MT4/144-BTDG560	GSM-MT4/144-BTDG565	GSM-MT4/144-BTDG570	GSM-MT4/144-BTDG575
Pmax(Wp)	417	421	425	429	432
Voc(V)	47.96	48.15	48.34	48.53	48.72
Isc(A)	11.34	11.39	11.44	11.48	11.53
Vmpp(V)	39.28	39.41	39.54	39.67	39.8
Impp(A)	10.61	10.67	10.73	10.79	10.85
$\alpha_{isc} (\%/K) : 0.045; \beta_{Voc} (\%/K) : -0.25; \gamma_{Pmp} (\%/K) : -0.29$					

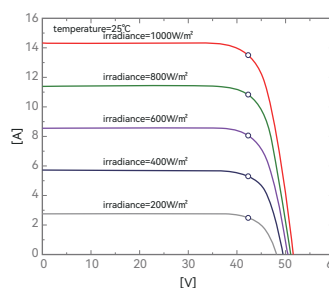
AM1.5, irradiance: 800W/m², Temperature=20°C, Wind speed=1m/s

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	45±2°C
Safety Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

I-V Diagram

(Different Irradiance)



I-V Diagram

(Different Temperature)

