

High TOPCon
Module

GSM- MT4/144- BTDG580

560W | 565W | 570W
575W | 580W



580W
Maximum Power Output

80±5%
Bifaciality

22.45%
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 22.45% 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

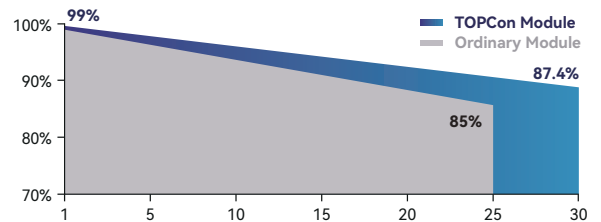


Better Warranty
Extremely low LID/PID in longer service life, less than 12.6% power degradation in 30 years

Quality Assurance

12 Years Product Warranty

30 Years Linear Power Warranty



Certificates



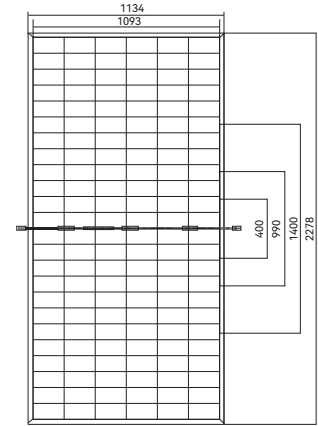
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Mechanical Data

Cell(mm)	182×91
Weight(kg)	34.0±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; 20pallet/container; 720pcs/container 36pcs/pallet; 23pallet/Trailer; 828pcs/Trailer



Electrical Data(STC)

Model	GSM-MT4/144-BTDG560	GSM-MT4/144-BTDG565	GSM-MT4/144-BTDG570	GSM-MT4/144-BTDG575	GSM-MT4/144-BTDG580
Pmax(Wp)	560	565	570	575	580
Voc(V)	50.69	50.89	51.09	51.29	51.49
Isc(A)	14.11	14.17	14.23	14.29	14.35
Vmpp(V)	41.98	42.17	42.32	42.47	42.62
Impp(A)	13.34	13.40	13.47	13.54	13.61
Efficiency	21.68%	21.87%	22.07%	22.26%	22.45%

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

Electrical Characteristics(NOCT)

Model	GSM-MT4/144-BTDG560	GSM-MT4/144-BTDG565	GSM-MT4/144-BTDG570	GSM-MT4/144-BTDG575	GSM-MT4/144-BTDG580
Pmax(Wp)	421	425	429	432	435
Voc(V)	48.15	48.34	48.53	48.72	48.91
Isc(A)	11.39	11.44	11.48	11.53	11.58
Vmpp(V)	39.41	39.54	39.67	39.80	39.93
Impp(A)	10.67	10.73	10.79	10.85	10.91

$\alpha_{Isc} (\%/K) : 0.045; \beta_{Voc} (\%/K) : -0.25; \gamma_{Pmp} (\%/K) : -0.29$

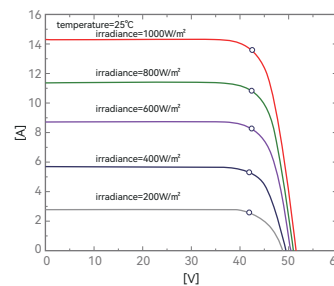
AM1.5, irradiance: 800W/m², Temperature=25°C, Wind speed=1m/s

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 Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

I-V Diagram

(Different Irradiance)



I-V Diagram

(Different Temperature)

