

# High TOPCon Module

## GSM-MT4/144-BTDG600

580W | 585W | 590W | 595W | 600W

### 23.23%

Maximum Power Output

### 600W

Maximum Efficiency

### 80±5%

Bifaciality

### 30YEAR

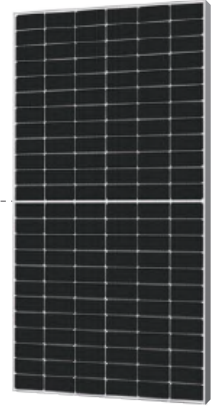
Linear Power Warranty

## Quality Assurance

**12** Years Product Warranty

**30** Years Linear Power Warranty

## Certificates



## Product Features



### SMBB Half Cell

Multi-busbar half-cell design, higher module efficiency and power output.



### High Energy Yield

Maximum Module Efficiency up to 23.23% 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.



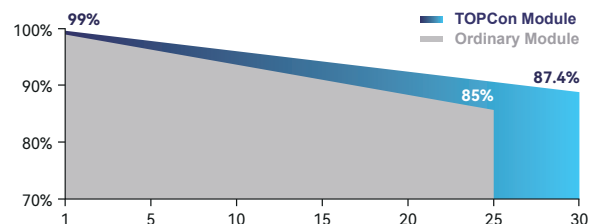
### Higher Performance

Lower temperature coefficient and low operation temperature, resulting in better energy yield in all-weather.

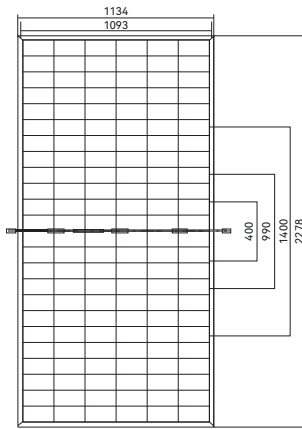


### Better Warranty

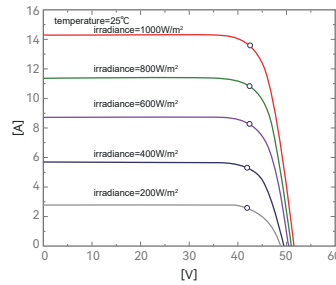
UL fire rating: C, longer service life, less than 12.6% power degradation in 30 years.



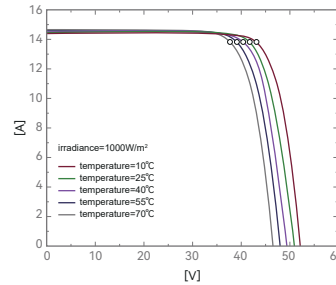
# High TOPCon Module GSM-MT4/144-BTDG600



I-V Diagram (Different Irradiance)



I-V Diagram (Different Temperature)



## Electrical Data(STC)

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

Model	GSM-MT4/144-BTDG580	GSM-MT4/144-BTDG585	GSM-MT4/144-BTDG590	GSM-MT4/144-BTDG595	GSM-MT4/144-BTDG600
Pmax(Wp)	580	585	590	595	600
Voc(V)	51.49	51.69	51.89	52.09	52.29
Isc(A)	14.35	14.41	14.47	14.53	14.59
Vmpp(V)	42.62	42.77	42.92	43.07	43.22
Imp(A)	13.61	13.68	13.75	13.82	13.89
Efficiency	22.45%	22.64%	22.83%	23.03%	23.23%

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

## Electrical Characteristics(NOCT)

Model	GSM-MT4/144-BTDG580	GSM-MT4/144-BTDG585	GSM-MT4/144-BTDG590	GSM-MT4/144-BTDG595	GSM-MT4/144-BTDG600
Pmax(Wp)	435	438	441	444	447
Voc(V)	48.91	49.10	49.29	49.48	49.67
Isc(A)	11.58	11.63	11.68	11.73	11.78
Vmpp(V)	39.93	40.02	40.11	40.20	40.29
Imp(A)	10.91	10.96	11.01	11.06	11.11

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

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

## Mechanical Data

Cell(mm)	182.2x183.75/182.2x182.2/182x182
Weight(kg)	35.0±0.5kg
Dimension(L×W×H)(mm)	2465×1134×30mm
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, 20pallets/container, 720cs/container; 23pallet/Trailer, 828pcs/Trailer

## 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