



High Efficiency **TOPCon** Module

GSM-MT4/120-BTDG490

465W | 470W | 475W | 480W | 485W | 490W

490W

Maximum Power Output

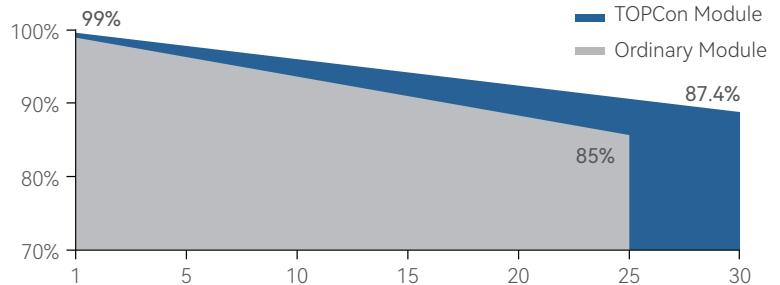
22.58%

Maximum Efficiency

85±5%

Bifaciality

Quality Assurance



Product Features



SMBB Half Cell

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



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



High Energy Yield

Maximum Module Efficiency up to 22.58% achieved by mature mass production HJT cell technology



Better Warranty

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



Higher Performance

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

Certificates



Electrical Data(STC)

Model	GSM-MT4/120-BTDG465	GSM-MT4/120-BTDG470	GSM-MT4/120-BTDG475	GSM-MT4/120-BTDG480	GSM-MT4/120-BTDG485	GSM-MT4/120-BTDG490
Pmax(Wp)	465	470	475	480	485	490
Voc(V)	42.20	42.37	42.54	42.73	42.90	43.08
Isc(A)	14.08	14.16	14.24	14.32	14.40	14.48
Vmpp(V)	34.89	35.06	35.23	35.39	35.56	35.73
Imp(A)	13.35	13.43	13.51	13.57	13.64	13.72
Efficiency	21.43%	21.66%	21.89%	22.12%	22.35%	22.58%

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

Electrical Characteristics(NOCT)

Model	GSM-MT4/120-BTDG465	GSM-MT4/120-BTDG470	GSM-MT4/120-BTDG475	GSM-MT4/120-BTDG480	GSM-MT4/120-BTDG485	GSM-MT4/120-BTDG490
Pmax(Wp)	347	351	355	359	363	367
Voc(V)	39.08	39.23	39.38	39.53	39.68	39.83
Isc(A)	11.49	11.57	11.65	11.73	11.81	11.89
Vmpp(V)	32.40	32.54	32.68	32.82	32.96	33.12
Imp(A)	10.72	10.80	10.88	10.96	11.04	11.10

α_{sc} (%/K) : 0.045; β_{Voc} (%/K) : -0.25; γ_{Pmp} (%/K) : -0.29

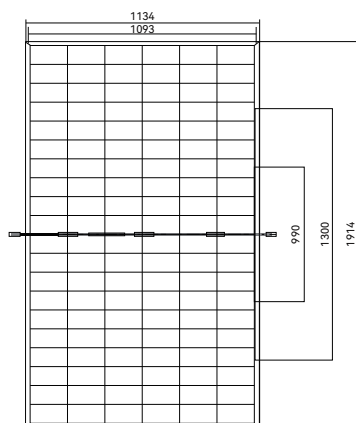
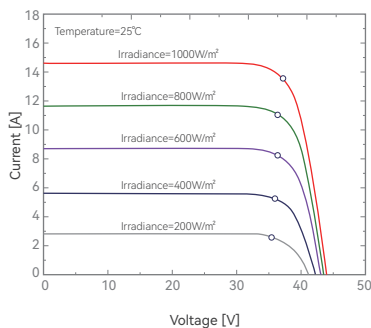
AM1.5, irradiance: 800W/m², Temperature=25°C, Wind speed=1m/s

Mechanical Data

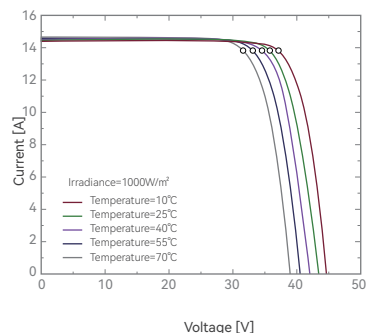
Cell	182.2x183.75/182.2x182.2/182x182 mm
Weight	28±0.5kg
Dimension	1914x1134x30mm
Cable	4mm ² , 300mm (customized length based on needs)
Frame	Anodized aluminum
Junction Box	IP68, 1500VDC, 3Diodes
Packagp configuration	36pcs/pallet, 24pallets/container, 864pcs/container; 36pcs/pallet, 28pallet/Trailer, 1008pcs/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 Rating	Class II
Grounding Electric Conductivity	< 0.1Ω

Dimensions (mm)

I-V Diagram


Different Irradiance



Different Temperature

*If the data is subject to change, the latest release shall prevail.

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