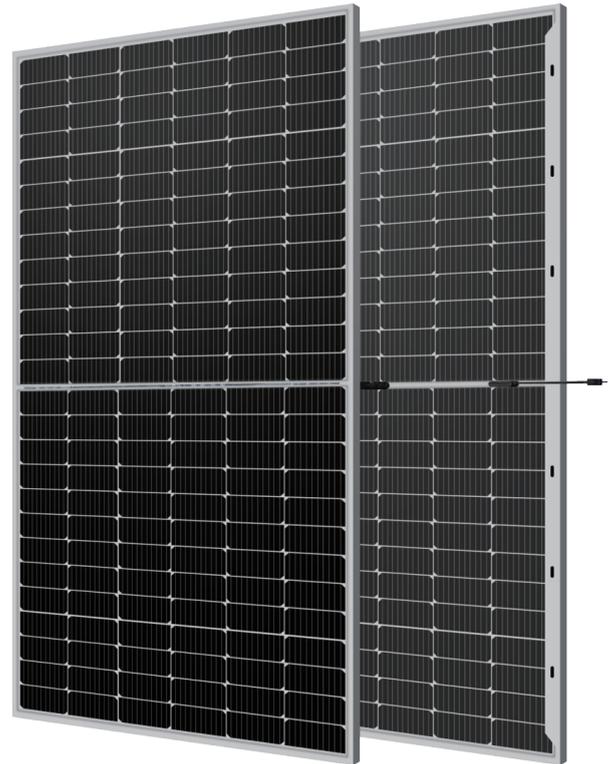


MARS GSD7G78M [580-600W]

Bifacial Dual Glass 10BB Half-cut Mono Perc



IEC 61215 / IEC 61730 / UL 61730

ISO9001: 2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational Health And Safety Management System



KEY FEATURES



10BB Half-cut Cell Technology

New circuit design, lower internal current, lower Rs loss dopped wafer



Significantly Lower The Risk Of Hot Spot

Special circuit design with much lower hot spot temperature



Double Power Output

For higher power output, backside power output can be increases 5-25%



Wider Application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



PID Resistance

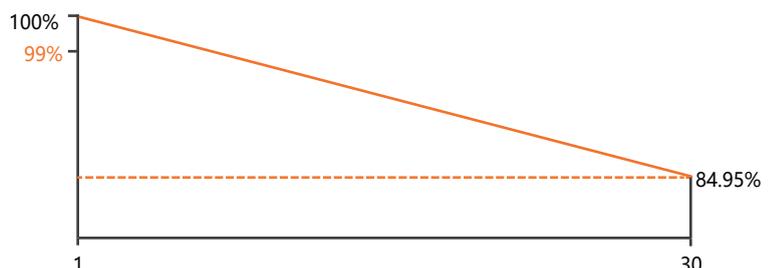
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Guaranteed Power Performance

25 Years Product Warranty

30 Years Linear Power Warranty

0.45% Annual Degradation Over 30 Years



As different markets have different certification requirements, please consult our G-Star sales group to obtain the corresponding certification for the local market. If any special requirements are needed for the specific installing environment, please feel free to contact G-star technical support department anytime.

GSD7G78M

580-600W

Bifacial Dual Glass 10BB Half-cut Mono Perc

Weight

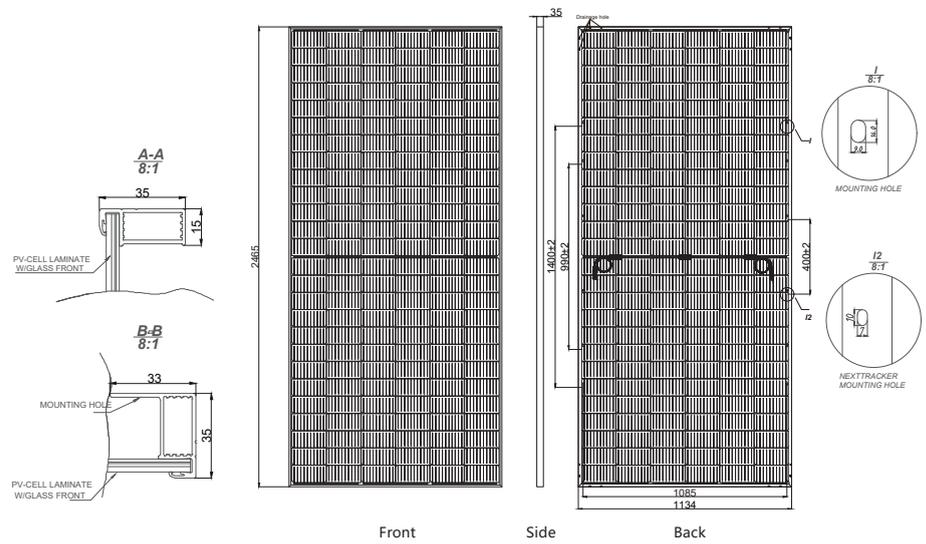
34.6 kg

Dimensions

2465*1134*35mm

Packaging

31pcs/pallet,496pcs/ 40'HQ Container
496pcs/ 40'HQ Container(USA)



OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC(IEC)
Maximum Series Fuse Rating	30A
Power Tolerance	0~+3%
Temperature Coefficients Of Pmax	-0.35%/°C
Temperature Coefficients Of Voc	-0.26%/°C
Temperature Coefficients Of Isc	0.048%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

*Under STC :BACKside Output Ration =Pmax(rear)/Pmax(front) 70%±5%

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline 182*91mm
No. Of Cells	156 pcs in series (6x26)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy,silver or black
Junction Box	IP68 ,3 Bypass Diodes
Output Cables	300mm in legh or Customized Length
Connectors	MC4/MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC & NMOT

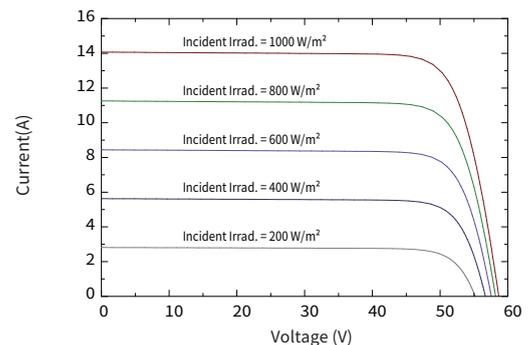
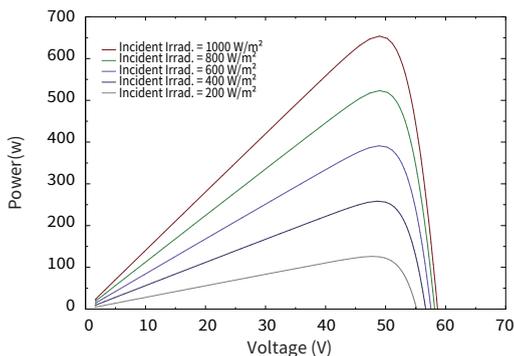
Module Type	GSD7G78M-580WT		GSD7G78M-585WT		GSD7G78M-590WT		GSD7G78M-595WT		GSD7G78M-600WT	
	STC	NMOT								
Maximum Power(Pmax)	580Wp	432Wp	585Wp	436Wp	590Wp	439Wp	595Wp	443Wp	600Wp	447Wp
Maximum Power Voltage (Vmp)	44.97V	41.90V	45.11V	42.10V	45.25V	42.20V	45.39V	42.30V	45.53V	42.50V
Maximum Power Current (Imp)	12.90A	10.30A	12.97A	10.35A	13.04A	10.41A	13.11A	10.46A	13.18A	10.52A
Open-Circuit Voltage (Voc)	53.59V	50.40V	53.73V	50.60V	53.87V	50.70V	54.01V	50.80V	54.15V	51.00V
Short-Circuit Current (Isc)	13.79A	11.12A	13.86A	11.17A	13.93A	11.23A	14.00A	11.28A	14.07A	11.34A
Module Efficiency STC (%)	20.75%		20.93%		21.11%		21.29%		21.46%	

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(Pmax)	609Wp	614Wp	620Wp	625Wp	630Wp
	Module Efficiency STC (%)	21.79%	21.97%	22.16%	22.35%	22.54%
15%	Maximum Power(Pmax)	667Wp	673Wp	679Wp	684Wp	690Wp
	Module Efficiency STC (%)	23.86%	24.07%	24.27%	24.48%	24.68%
25%	Maximum Power(Pmax)	725Wp	731Wp	738Wp	744Wp	750Wp
	Module Efficiency STC (%)	25.94%	26.16%	26.38%	26.61%	26.83%

*Bifacial Gain: The additional gain from the back side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tit angle etc.) and albedo of the ground.

IV-CURVE



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Website: www.gstarsolar.com



*STC: Irradiance 1000W/m²
NMOT: Irradiance 800W/m²



Cell Temperature 25°C
Ambient Temperature 20°C



AM=1.5
AM=1.5



Wind Speed 1m/s
Wind Speed 1m/s

Due to ongoing innovation, R&D enhancement, the specification and key features described in this datasheet may deviate slightly and are not guaranteed. G-Star reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.