

MARS GSD7G72M [530-550W]

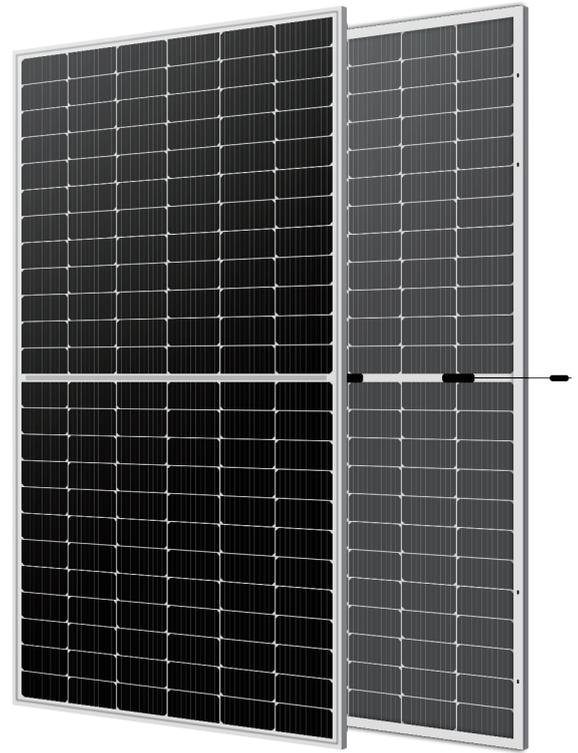
Bifacial Dual Glass 10BB Half-cut Mono Perc

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 increased 5-25%



Wider Application

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



PID Resistance

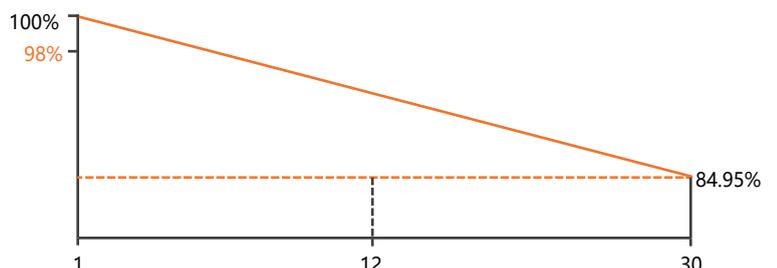
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

Guaranteed Power Performance

12 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.

GSD7G72M

530-550W

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Weight

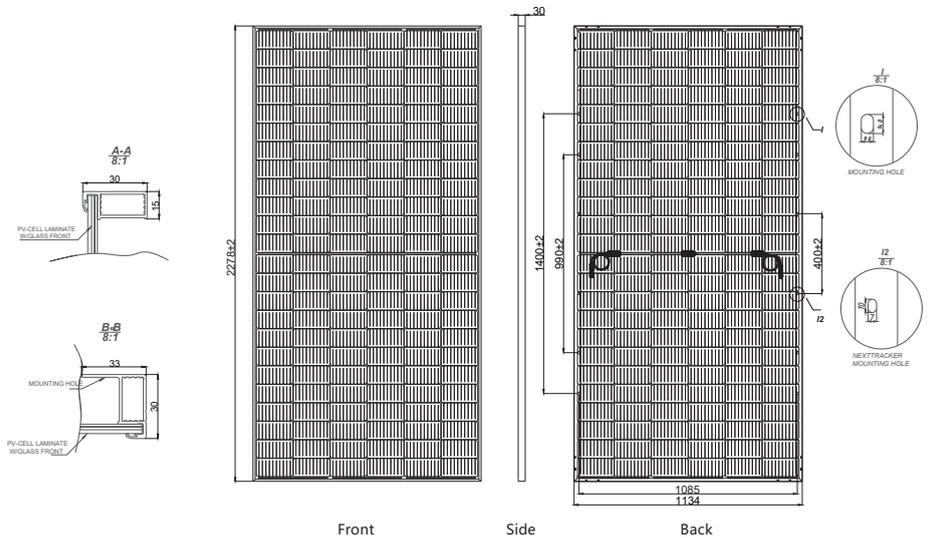
31.8kg

Dimensions

2278*1134*30mm

Packaging

36pcs/pallet,720pcs/ 40'HQ Container
576pcs/ 40'HQ Container(USA)



OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC
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	144 pcs in series (6*24)
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

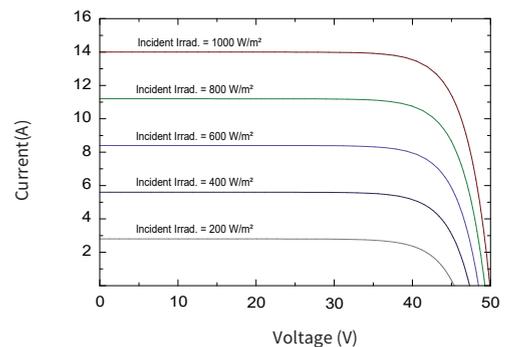
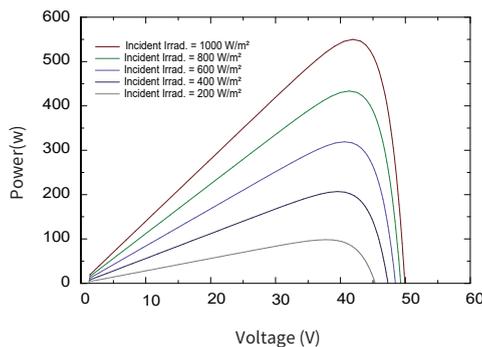
Module Type	GSD7G72M-530WT		GSD7G72M-535WT		GSD7G72M-540WT		GSD7G72M-545WT		GSD7G72M-550WT	
	STC	NMOT								
Maximum Power(Pmax)	530Wp	395Wp	535Wp	398Wp	540Wp	402Wp	545Wp	406Wp	550Wp	410Wp
Maximum Power Voltage (Vmp)	41.32V	38.6V	41.48V	38.7V	41.64V	38.8V	41.80V	39.0V	41.96V	39.1V
Maximum Power Current (Imp)	12.83A	10.24A	12.90A	10.30A	12.97A	10.36A	13.04A	10.41A	13.11A	10.47A
Open-circuit Voltage (Voc)	49.32V	46.4V	49.46V	46.5V	49.60V	46.7V	49.76V	46.8V	49.92V	47.0V
Short-circuit Current (Isc)	13.72A	11.06A	13.79A	11.12A	13.86A	11.17A	13.93A	11.23A	14.00A	11.28A
Module Efficiency STC (%)	20.52%		20.71%		20.90%		21.10%		21.29%	

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Gain	Parameter	530Wp	535Wp	540Wp	545Wp	550Wp
5%	Maximum Power(Pmax)	556Wp	561Wp	567Wp	572Wp	577Wp
	Module Efficiency STC (%)	21.52%	21.72%	21.95%	22.14%	22.34%
15%	Maximum Power(Pmax)	609Wp	615Wp	621Wp	626Wp	632Wp
	Module Efficiency STC (%)	23.57%	23.81%	24.04%	24.23%	24.47%
25%	Maximum Power(Pmax)	662Wp	668Wp	675Wp	681Wp	687Wp
	Module Efficiency STC (%)	25.63%	25.86%	26.13%	26.36%	26.59%

*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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*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.