

MARS GSP6G72M [435-455W]

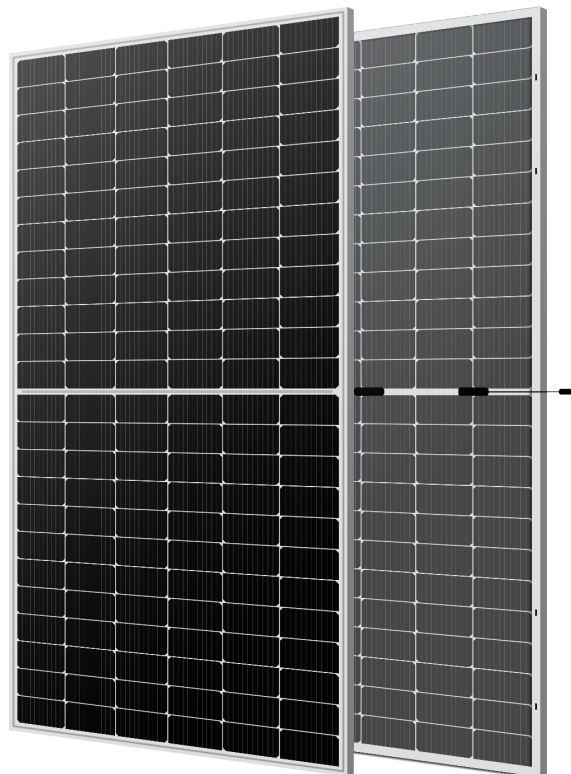
Bifacial Single Glass 9BB Half-cut Mono Perc

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



9BB 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%



PID Resistance

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



Enhanced Mechanical Load

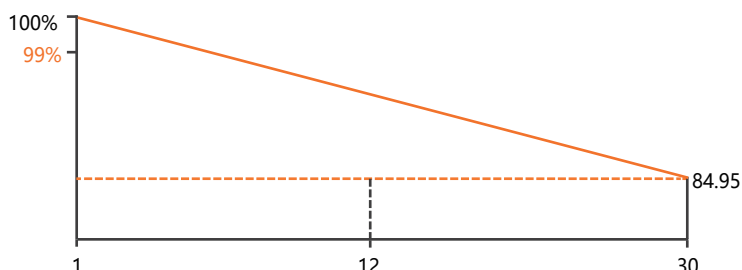
Certified to withstand: wind load (2400 Pascal) and snowload(5400 Pascal)

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.

GSP6G72M

435-455W

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Weight

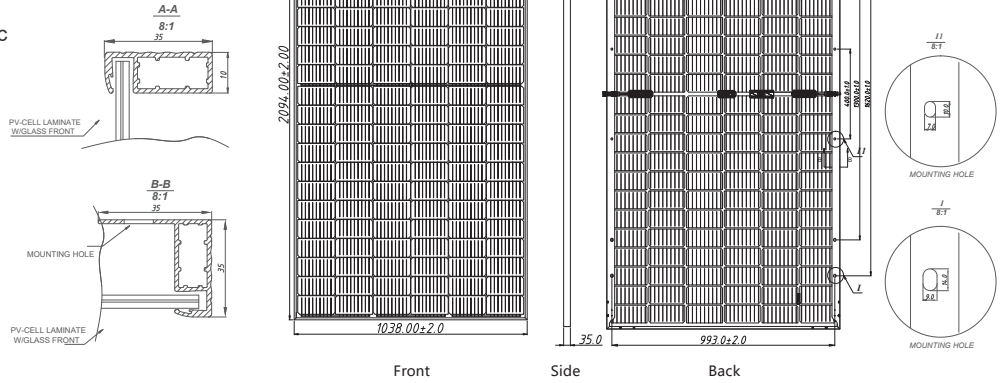
23.5kg

Dimensions

2094*1038*35mm

Packaging

31pcs/pallet, 715pcs/ 40'HQ Container
682pcs/ 40'HQ Container(USA)



OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC(IEC)
Maximum Series Fuse Rating	25A
Power Tolerance	0~+3%
Temperature Coefficients Of Pmax	-0.36%/°C
Temperature Coefficients Of Voc	-0.26%/°C
Temperature Coefficients Of Isc	0.043%/°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 166*83mm
No. Of Cells	144 pcs in series (6x24)
Front Glass	3.2mm AR Coating Semi-tempered Glass
Backsheet	Transparent With Grid
Frame	Anodized Aluminium Alloy, silver or black
Junction Box	IP68 ,3Bypass Diodes
Output Cables	300mm in legh or Customized Length
Connectors	MC4/MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC & NMOT

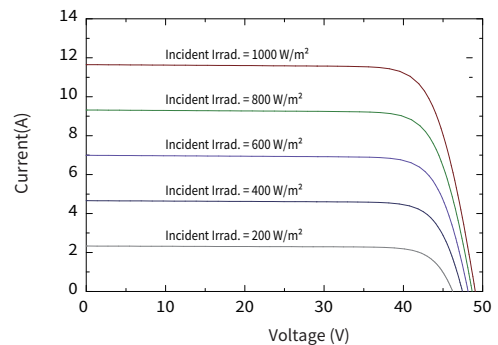
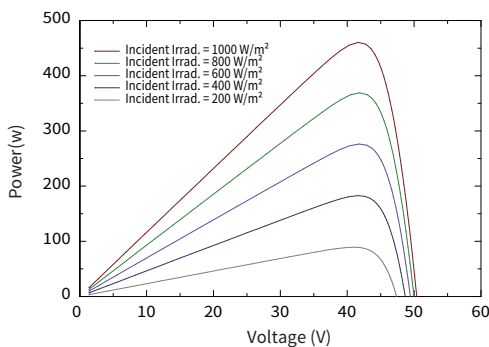
Module Type	GSP6G72M-435WT		GSP6G72M-440WT		GSP6G72M-445WT		GSP6G72M-450WT		GSP6G72M-455WT	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax)	435Wp	323Wp	440Wp	327Wp	445Wp	330Wp	450Wp	334Wp	455Wp	338Wp
Maximum Power Voltage (Vmp)	41.40V	38.70V	41.60V	38.90V	41.80V	39.10V	42.00V	39.30V	42.20V	39.40V
Maximum Power Current (Imp)	10.51A	8.36A	10.58A	8.41A	10.65A	8.47A	10.72A	8.52A	10.79A	8.57A
Open-Circuit Voltage (Voc)	49.80V	46.60V	50.00V	46.80V	50.20V	46.90V	50.40V	47.10V	50.60V	47.30V
Short-Circuit Current (Isc)	11.16A	9.00A	11.22A	9.04A	11.29A	9.10A	11.36A	9.16A	11.43A	9.21A
Module Efficiency STC (%)	18.32%		18.53%		18.74%		18.95%		19.16%	

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(Pmax)	457Wp	462Wp	467Wp	473Wp	478Wp
	Module Efficiency STC (%)	19.23%	19.46%	19.68%	19.90%	20.12%
15%	Maximum Power(Pmax)	500Wp	506Wp	512Wp	518Wp	523Wp
	Module Efficiency STC (%)	21.07%	21.31%	21.55%	21.79%	22.04%
25%	Maximum Power(Pmax)	544Wp	550Wp	556Wp	563Wp	569Wp
	Module Efficiency STC (%)	22.90%	23.16%	23.43%	23.69%	23.95%

*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.