

MARS GSP7G54M(H) [395-415BT]

Bifacial Single 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%



PID Resistance

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



Enhanced Mechanical Load

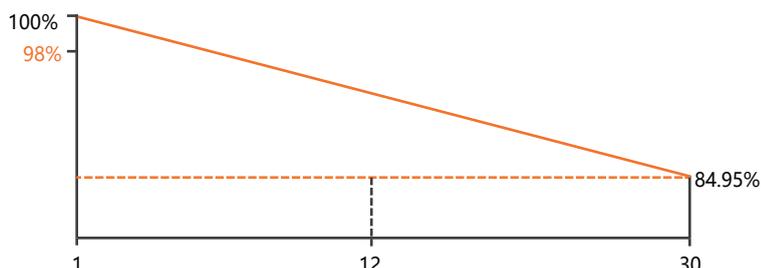
Certified to withstand: wind load (2400 Pascal) and snowload(5400 Pascal)

Guaranteed Power Performance

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.

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Weight

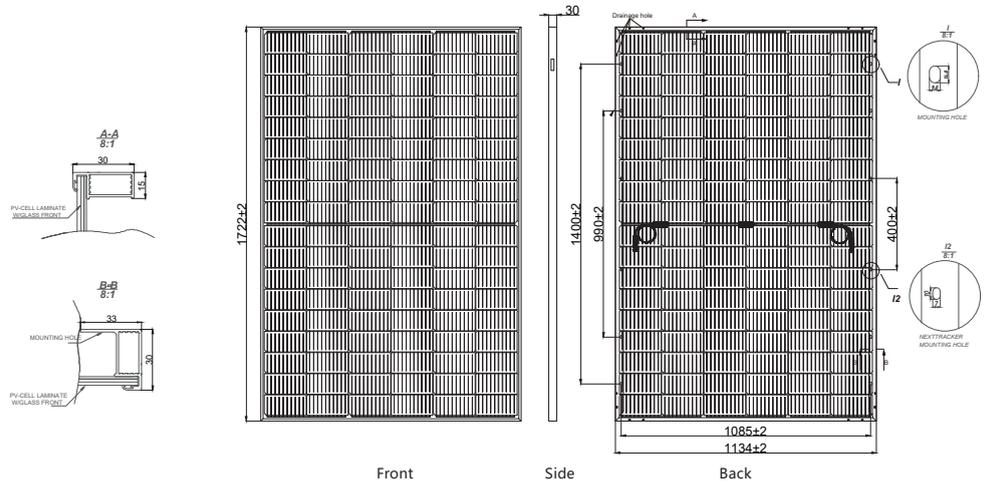
21.5kg

Dimensions

1722*1134*30mm

Packaging

36pcs/pallet,936pcs/ 40'HQ Container



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	108 pcs in series (6*18)
Front Glass	3.2mm AR Coating Semi-tempered Glass
Backsheet	Transparent With Black Grid
Frame	Anodized Aluminium Alloy,black
Junction Box	IP68 , 3 Bypass Diodes
Output Cables	1200mm in length or Customized Length
Connectors	MC4/MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC & NMOT

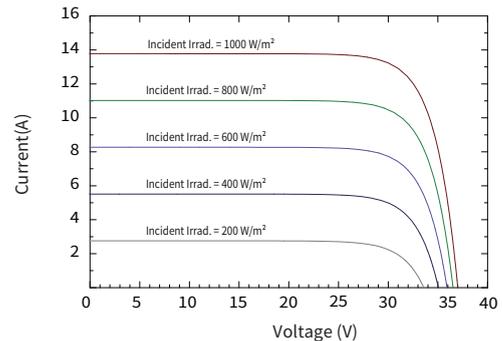
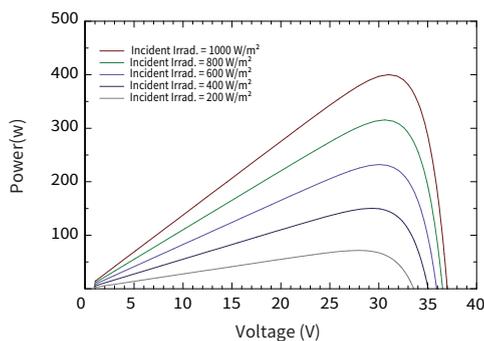
Module Type	GSP7G54M(H)395BT		GSP7G54M(H)400BT		GSP7G54M(H)405BT		GSP7G54M(H)410BT		GSP7G54M(H)415BT	
	STC	NMOT								
Maximum Power(Pmax)	395Wp	294Wp	400Wp	298Wp	405Wp	302Wp	410Wp	306Wp	415Wp	310Wp
Maximum Power Voltage (Vmp)	30.85V	28.80V	31.05V	29.00V	31.24V	29.20V	31.43V	29.30V	31.64V	29.60V
Maximum Power Current (Imp)	12.81A	10.23A	12.89A	10.30A	12.97A	10.36A	13.05A	10.42A	13.13A	10.48A
Open-circuit Voltage (Voc)	36.75V	34.60V	37.00V	34.80V	37.25V	35.10V	37.50V	35.30V	37.75V	35.50V
Short-circuit Current (Isc)	13.69A	11.04A	13.78A	11.11A	13.86A	11.17A	13.94A	11.24A	14.02A	11.30A
Module Efficiency STC (%)	20.23%		20.48%		20.74%		21.00%		21.25%	

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Gain	Parameter	GSP7G54M(H)395BT	GSP7G54M(H)400BT	GSP7G54M(H)405BT	GSP7G54M(H)410BT	GSP7G54M(H)415BT
5%	Maximum Power(Pmax)	414Wp	420Wp	425Wp	430Wp	435Wp
	Module Efficiency STC (%)	21.20%	21.51%	21.76%	22.02%	22.28%
15%	Maximum Power(Pmax)	454Wp	460Wp	465Wp	471Wp	477Wp
	Module Efficiency STC (%)	23.25%	23.56%	23.81%	24.12%	24.43%
25%	Maximum Power(Pmax)	493Wp	500Wp	506Wp	512Wp	518Wp
	Module Efficiency STC (%)	25.25%	25.60%	25.91%	26.22%	26.53%

*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, tilt angle etc.) and albedo of the ground.

IV-CURVE



Gstar

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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.