

# MARS GSP7G66M [485-505W]

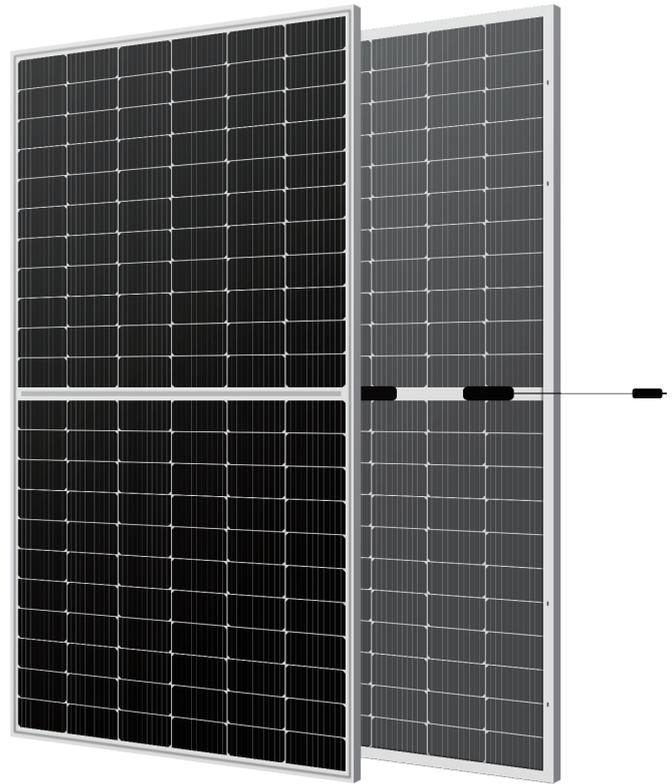
Bifacial Single Glass 10BB Half-cut Mono Perc

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 increases 5-25%



### PID Resistance

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



### Enhanced Mechanical Load

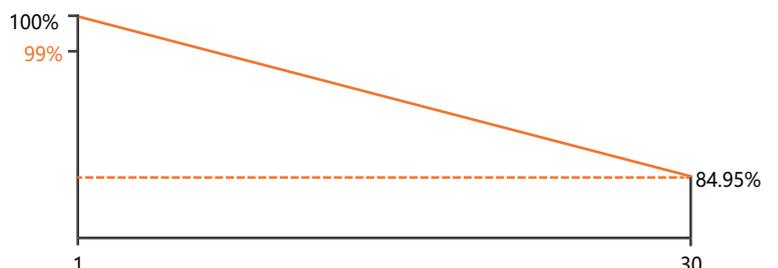
Certified to withstand: wind load (2400 Pascal) and snowload(5400 Pascal)

## 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.

GSP7G66M

# 485-505W

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## Weight

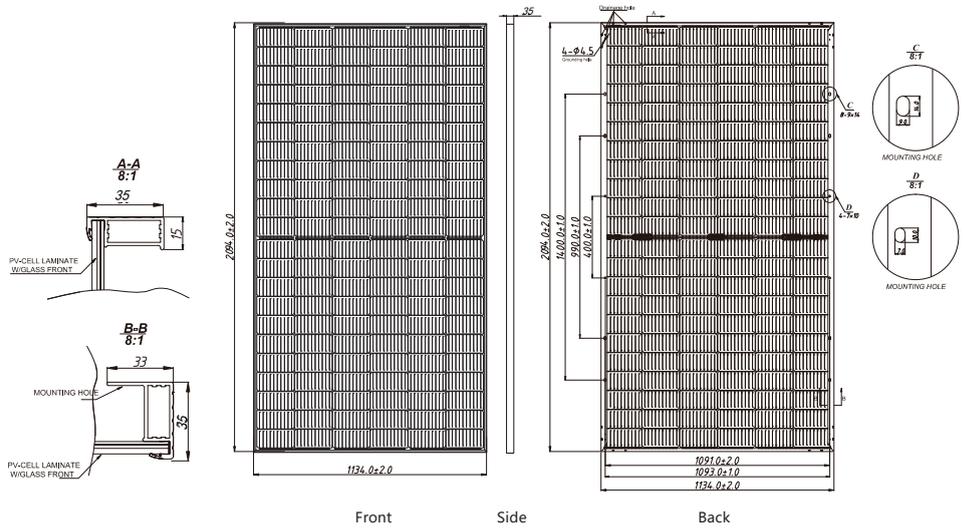
26.6kg

## Dimensions

2094\*1134\*35mm

## Packaging

31pcs/pallet,682pcs/ 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	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	132 pcs in series (6x22)
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

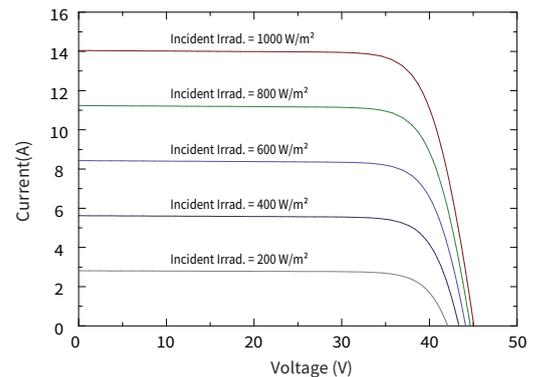
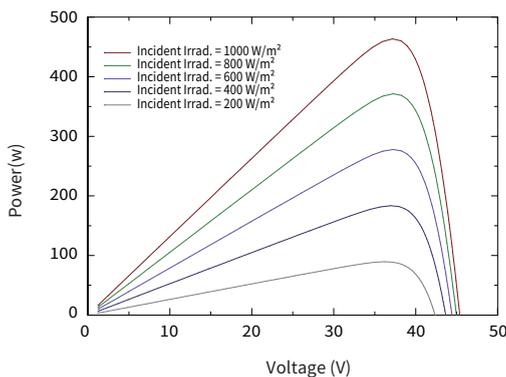
Module Type	GSP7G66M-485WT		GSP7G66M-490WT		GSP7G66M-495WT		GSP7G66M-500WT		GSP7G66M-505WT	
	STC	NMOT								
Maximum Power(Pmax)	485Wp	362Wp	490Wp	365Wp	495Wp	369Wp	500Wp	372Wp	505Wp	376Wp
Maximum Power Voltage (Vmp)	37.87V	35.30V	38.02V	35.50V	38.17V	35.60V	38.32V	35.70V	38.47V	35.90V
Maximum Power Current (Imp)	12.81A	10.23A	12.89A	10.29A	12.97A	10.36A	13.05A	10.42A	13.13A	10.49A
Open-Circuit Voltage (Voc)	45.16V	42.50V	45.31V	42.60V	45.46V	42.80V	45.61V	42.90V	45.76V	43.10V
Short-Circuit Current (Isc)	13.70A	11.04A	13.78A	11.11A	13.86A	11.17A	13.94A	11.24A	14.02A	11.30A
Module Efficiency STC (%)	20.42%		20.64%		20.85%		21.06%		21.27%	

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power(Pmax)	509Wp	515Wp	520Wp	525Wp	530Wp
	Module Efficiency STC (%)	21.45%	21.67%	21.89%	22.11%	22.33%
15%	Maximum Power(Pmax)	558Wp	564Wp	569Wp	575Wp	581Wp
	Module Efficiency STC (%)	23.49%	23.73%	23.97%	24.21%	24.46%
25%	Maximum Power(Pmax)	606Wp	613Wp	619Wp	625Wp	631Wp
	Module Efficiency STC (%)	25.53%	25.79%	26.06%	26.32%	26.58%

\*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](http://www.gstarsolar.com)



\*STC: Irradiance 1000W/m<sup>2</sup>  
NMOT: Irradiance 800W/m<sup>2</sup>



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.