

# N-Type GSD8K66T [670-690W]

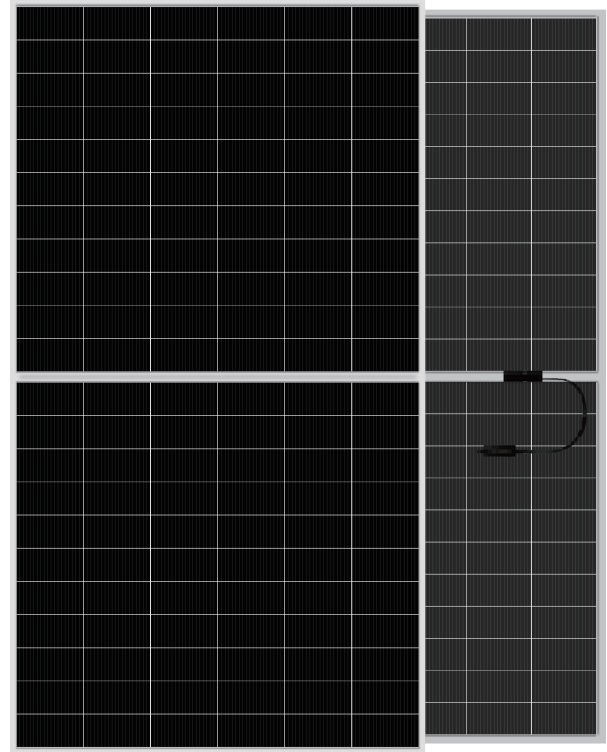
Bifacial Dual Glass Half-cut Mono Topcon

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



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability



### Lower Attenuation

Components have better reliability and lower LID/LETID attenuation



### 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

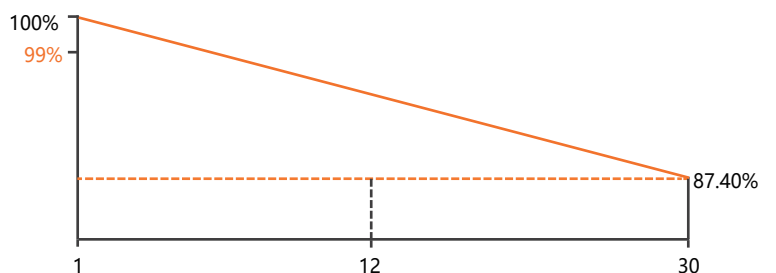
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

## Guaranteed Power Performance

**25** Years Product Warranty

**30** Years Linear Power Warranty

**0.40%** 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.

# GSD8K66T 670-690W

Bifacial Dual Glass Half-cut Mono Topcon

## Weight

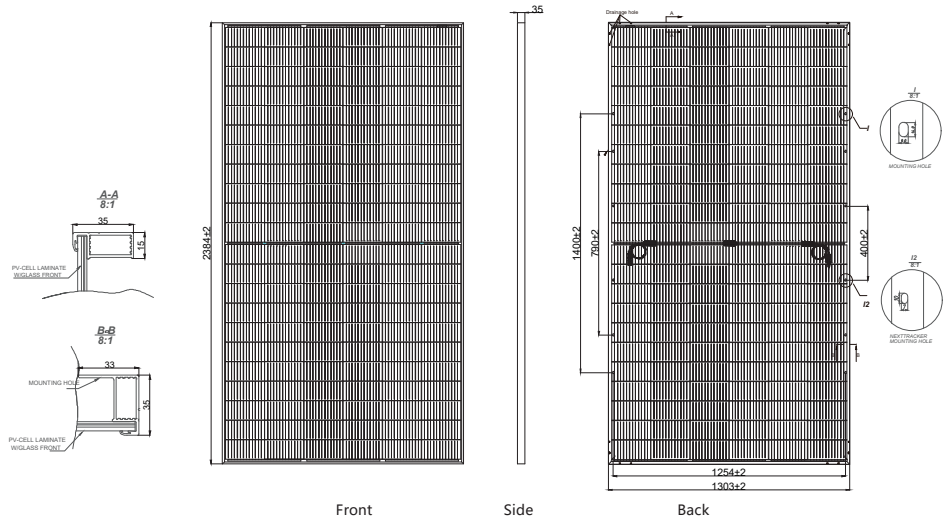
39 kg

## Dimensions

2384X1303X35mm

## Packaging

31pcs/pallet,558pcs/ 40'HQ Container  
558pcs/ 40'HQ Container(USA)



## OPERATING CONDITIONS

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500V/DC(IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0~+3%
Temperature Coefficients Of Pmax	-0.30%/°C
Temperature Coefficients Of Voc	-0.25%/°C
Temperature Coefficients Of Isc	0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

\*Under STC :BACKside Output Ratio =Pmax(rear)/Pmax(front) 80%±5%

## MECHANICAL CHARACTERISTICS

Cell Type	N type Monocrystalline 210*105mm
No. Of Cells	132 pcs in series (6x22)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
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

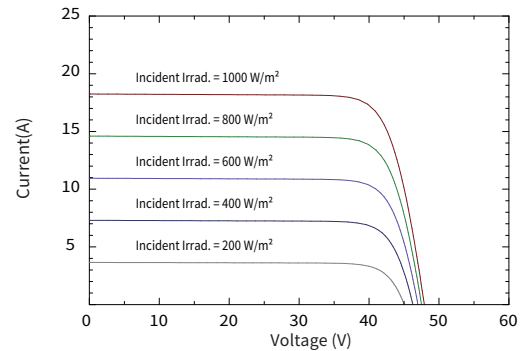
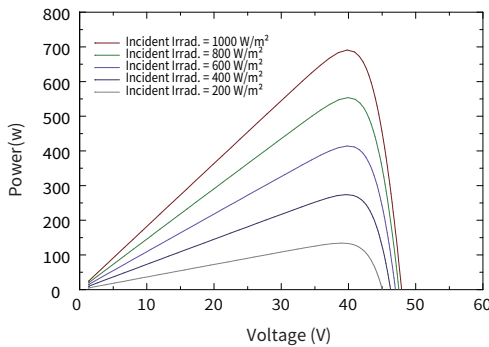
Module Type	GSD8K66T-670WT		GSD8K66T-675WT		GSD8K66T-680WT		GSD8K66T-685WT		GSD8K66T-690WT	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax)	670Wp	508Wp	675Wp	512Wp	680Wp	516Wp	685Wp	520Wp	690Wp	523Wp
Maximum Power Voltage (Vmp)	39.90V	37.50V	40.10V	37.70V	40.30V	37.90V	40.50V	38.10V	40.70V	38.30V
Maximum Power Current (Imp)	16.86A	13.55A	16.89A	13.58A	16.92A	13.61A	16.95A	13.64A	16.98A	13.66A
Open-Circuit Voltage (Voc)	46.50V	43.90V	46.70V	44.10V	46.90V	44.30V	47.10V	44.50V	47.30V	44.70V
Short-Circuit Current (Isc)	17.90A	14.26A	17.93A	14.29A	17.96A	14.31A	17.99A	14.33A	18.02A	14.36A
Module Efficiency STC (%)	21.57%		21.73%		21.89%		22.05%		22.21%	

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Gain	Parameter	GSD8K66T-670WT	GSD8K66T-675WT	GSD8K66T-680WT	GSD8K66T-685WT	GSD8K66T-690WT
5%	Maximum Power(Pmax)	703Wp	708Wp	714Wp	719Wp	724Wp
	Module Efficiency STC (%)	22.63%	22.79%	22.99%	23.15%	23.31%
15%	Maximum Power(Pmax)	770Wp	776Wp	782Wp	787Wp	793Wp
	Module Efficiency STC (%)	24.79%	24.98%	25.17%	25.34%	25.53%
25%	Maximum Power(Pmax)	837Wp	843Wp	850Wp	856Wp	862Wp
	Module Efficiency STC (%)	26.94%	27.14%	27.36%	27.56%	27.75%

\*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



E-mail: info@gstar-solar.com  
Website: 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.