

# N-Type GSD7S60T [470-490W]

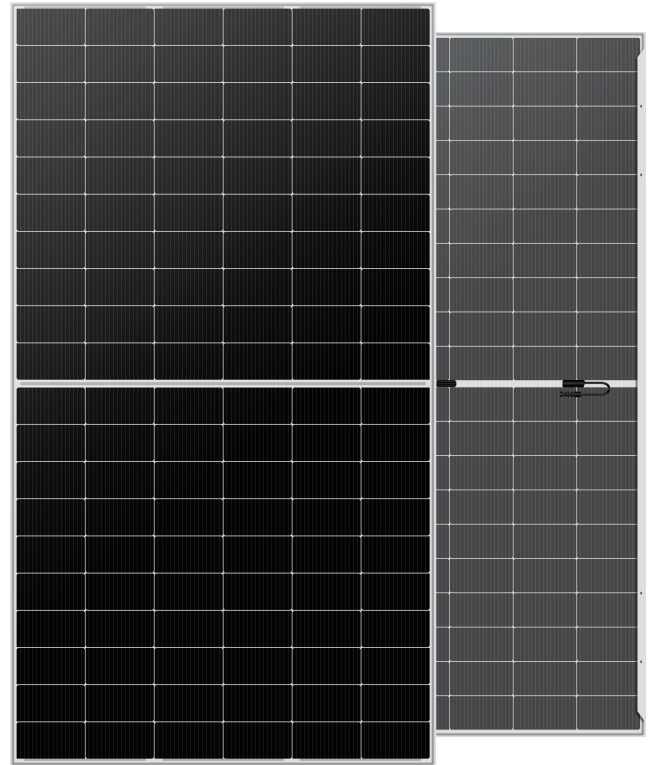
Bifacial Dual Glass Half-cut Mono Topcon

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

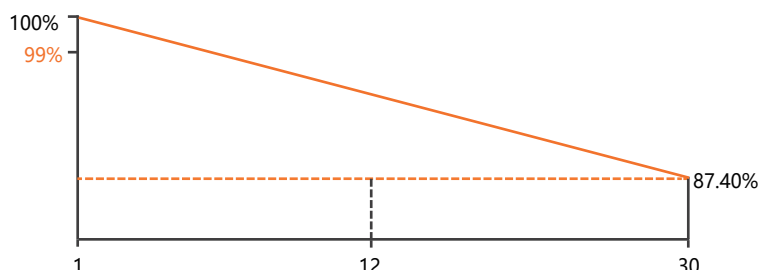
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

## 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.

# GSD7S60T

# 470-490W

Bifacial Dual Glass Half-cut Mono Topcon

## Weight

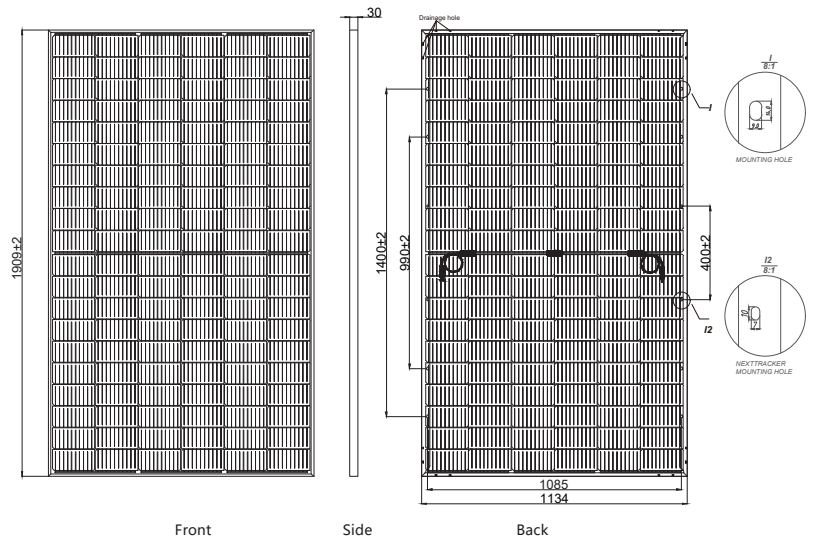
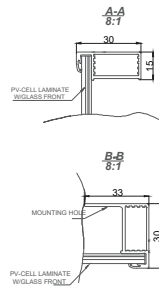
26 kg

## Dimensions

1909\*1134\*30mm

## Packaging

36pcs/pallet,864pcs/ 40'HQ Container



Front

Side

Back

## 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	-0.30%/°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 Ration =Pmax(rear)/Pmax(front) 80%±5%	

## MECHANICAL CHARACTERISTICS

Cell Type	N type Monocrystalline 182*91mm
No. Of Cells	120 pcs in series (6x20)
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-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

## ELECTRICAL PARAMETERS AT STC

Module Type	GSD7S60T-470WT	GSD7S60T-475WT	GSD7S60T-480WT	GSD7S60T-485WT	GSD7S60T-490WT
Maximum Power(Pmax)	470	475	480	485	490
Maximum Power Voltage (Vmp)	35.05	35.21	35.38	35.55	35.72
Maximum Power Current (Imp)	13.41	13.49	13.57	13.65	13.72
Open-Circuit Voltage (Voc)	42.38	42.54	42.71	42.88	43.06
Short-Circuit Current (Isc)	14.15	14.23	14.31	14.39	14.47
Module Efficiency STC (%)	21.71%	21.94%	22.17%	22.40%	22.63%
STC: Irradiance 1000W/m²,AM=1.5, Cell temperature 25°C.					

## ELECTRICAL PARAMETERS AT BSTC\*\*

Maximum Power(Pmax)	520	525	530	535	540
Maximum Power Voltage (Vmp)	35.05	35.19	35.55	35.55	35.72
Maximum Power Current (Imp)	14.84	14.92	14.91	15.05	15.12
Open-Circuit Voltage (Voc)	42.38	42.54	42.71	42.88	43.06
Short-Circuit Current (Isc)	15.67	15.76	15.81	15.93	16.05
Module Efficiency STC (%)	24.02%	24.25%	24.48%	24.71%	24.94%
**BSTC: Front side irradiation 1000W/m², Back side reflection irradiation 135W/m²,AM=1.5, Cell temperature 25°C.					

## IV-CURVE

