

N-Type GSD7S54T [420-440W]

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

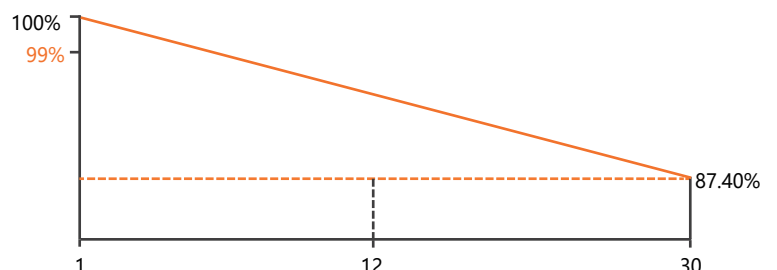
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

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.

GSD7S54T

420-440W

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Weight

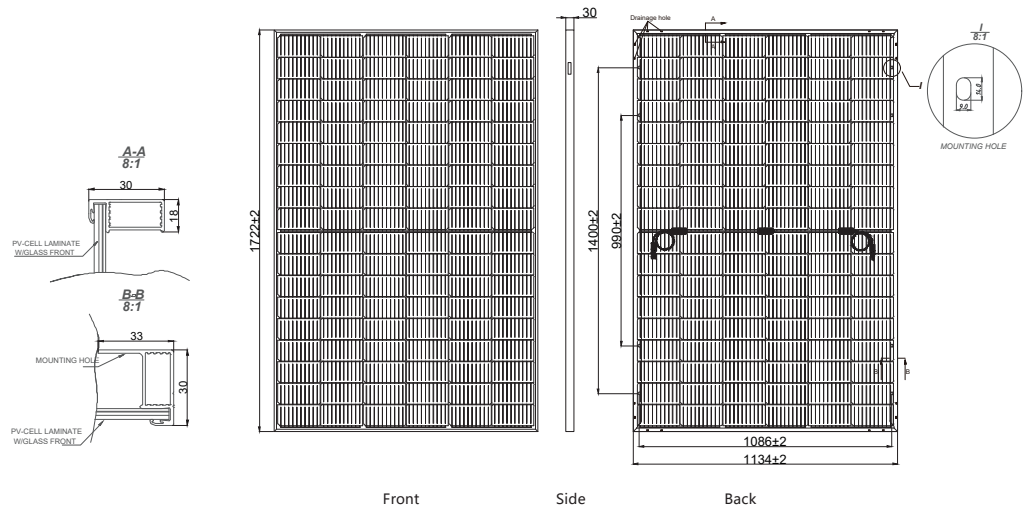
24 kg

Dimensions

1722*1134*30mm

Packaging

36pcs/pallet,936pcs/ 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	108 pcs in series (6x18)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy,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	GSD7S54T-420BT	GSD7S54T-425BT	GSD7S54T-430BT	GSD7S54T-435BT	GSD7S54T-440BT
Maximum Power(Pmax)	420	425	430	435	440
Maximum Power Voltage (Vmp)	31.51	31.70	31.88	32.06	32.24
Maximum Power Current (Imp)	13.33	13.41	13.49	13.57	13.65
Open-Circuit Voltage (Voc)	38.11	38.30	38.49	38.68	38.87
Short-Circuit Current (Isc)	14.07	14.15	14.23	14.31	14.39
Module Efficiency STC (%)	21.51%	21.76%	22.02%	22.28%	22.53%
STC: Irradiance 1000W/m²,AM=1.5, Cell temperature 25°C.					

ELECTRICAL PARAMETERS AT BSTC**

Maximum Power(Pmax)	465	470	475	480	485
Maximum Power Voltage (Vmp)	31.51	31.70	33.91	32.05	32.23
Maximum Power Current (Imp)	14.76	14.83	14.01	14.98	15.05
Open-Circuit Voltage (Voc)	38.11	38.30	38.49	38.68	38.87
Short-Circuit Current (Isc)	15.58	15.67	15.76	15.81	15.93
Module Efficiency STC (%)	23.81%	24.07%	24.32%	24.58%	24.84%

**BSTC: Front side irradiation 1000W/m², Back side reflection irradiation 135W/m²,AM=1.5, Cell temperature 25°C.

IV-CURVE

