Gstar
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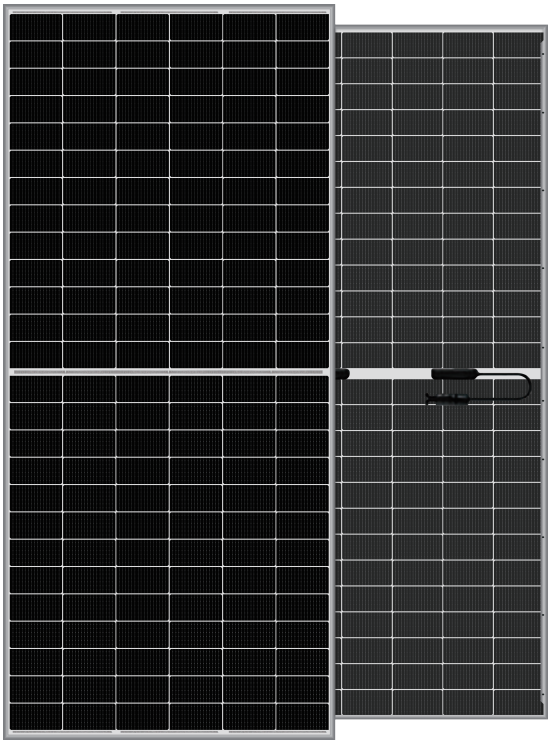
N-Type
GSD7S78T
[615-640W]

Bifacial Dual Glass Half-cut Mono Topcon



IEC 61215 / IEC 61730 / UL 61730

IS09001: 2015: Quality Management System

IS014001:2015: Environment Management System

IS045001:2018: 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

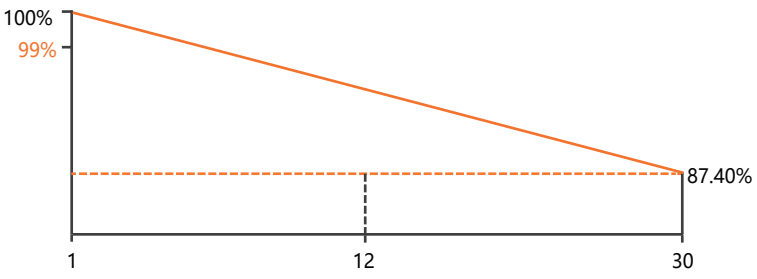
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

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, pleae feel free to contact G-star technical support department anytime.

GSD7S78T

615-640W

Bifacial Dual Glass Half-cut Mono Topcon

Weight

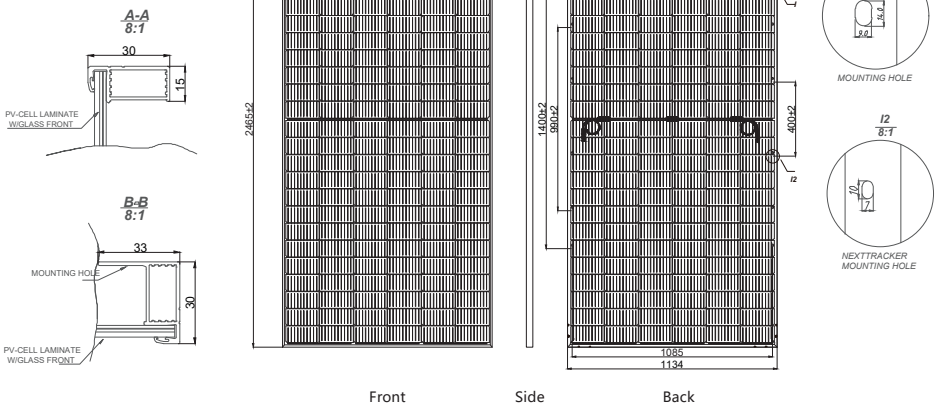
34.6 kg

Dimensions

2465X1134X30mm

Packaging

36pcs/pallet,576pcs/ 40'HQ Container
576pcs/ 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	-0.30%/°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	156 pcs in series (2x78)
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 legth or Customized Length
Connectors	MC4/MC4-EVO2
Mechanical Load	5400Pa(Front)/2400Pa(Back)

ELECTRICAL PARAMETERS AT STC

Module Type	GSD7S78T-615WT	GSD7S78T-620WT	GSD7S78T-625WT	GSD7S78T-630WT	GSD7S78T-635WT	GSD7S78T-640WT
Maximum Power(Pmax)	615	620	625	630	635	640
Maximum Power Voltage (Vmp)	45.77	45.93	46.10	46.26	46.42	46.58
Maximum Power Current (Imp)	13.44	13.50	13.56	13.62	13.68	13.74
Open-Circuit Voltage (Voc)	55.44	55.58	55.72	55.86	56.00	56.15
Short-Circuit Current (Isc)	14.11	14.19	14.27	14.35	14.43	14.51
Module Efficiency STC (%)	22.00%	22.18%	22.36%	22.54%	22.72%	22.90%

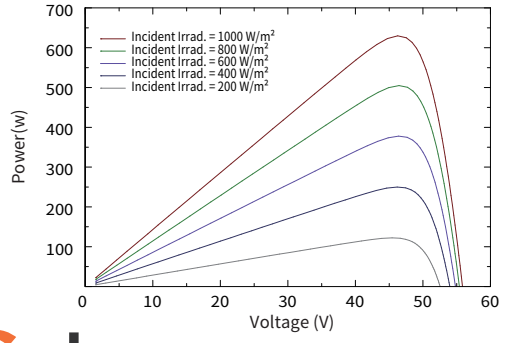
STC: Irradiance 1000W/m²,AM=1.5, Cell temperature 25°C.

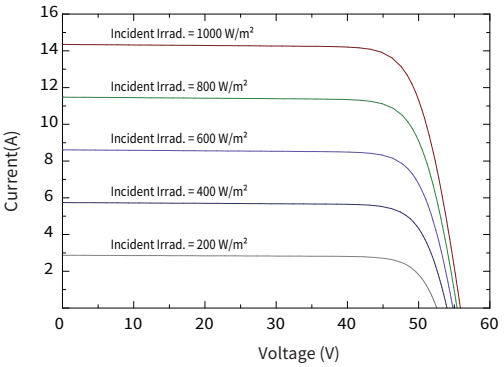
ELECTRICAL PARAMETERS AT BSTC**

Maximum Power(Pmax)	680	685	690	695	700	705
Maximum Power Voltage (Vmp)	45.77	45.92	46.10	46.25	46.64	46.57
Maximum Power Current (Imp)	14.86	14.92	14.97	15.03	15.01	15.14
Open-Circuit Voltage (Voc)	55.44	55.58	55.72	55.86	56.00	56.15
Short-Circuit Current (Isc)	15.62	15.71	15.80	15.89	15.98	16.07
Module Efficiency STC (%)	24.33%	24.51%	24.68%	24.86%	25.04%	25.22%

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

IV-CURVE





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