

N-Type GSD7S78T

[615-640W]

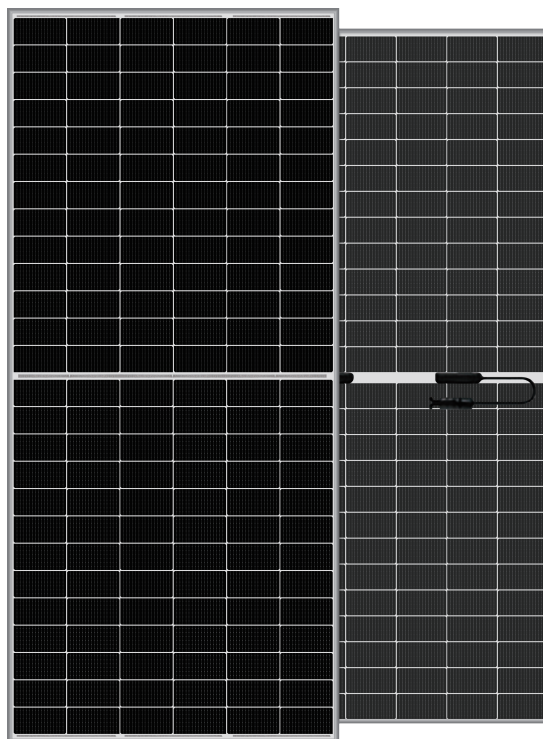
Bifacial Dual Glass Half-cut Mono Topcon

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



Better 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

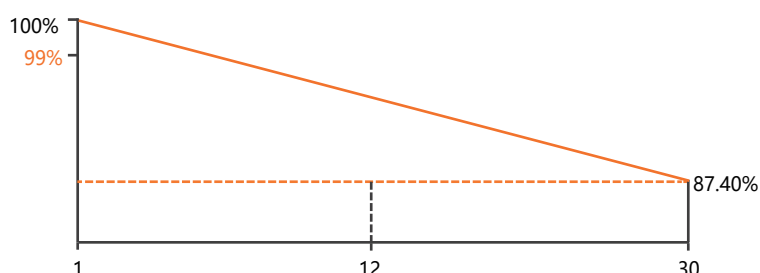
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

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.

GSD7S78T

615-640W

Bifacial Dual Glass Half-cut Mono Topcon

Weight

34.6 kg

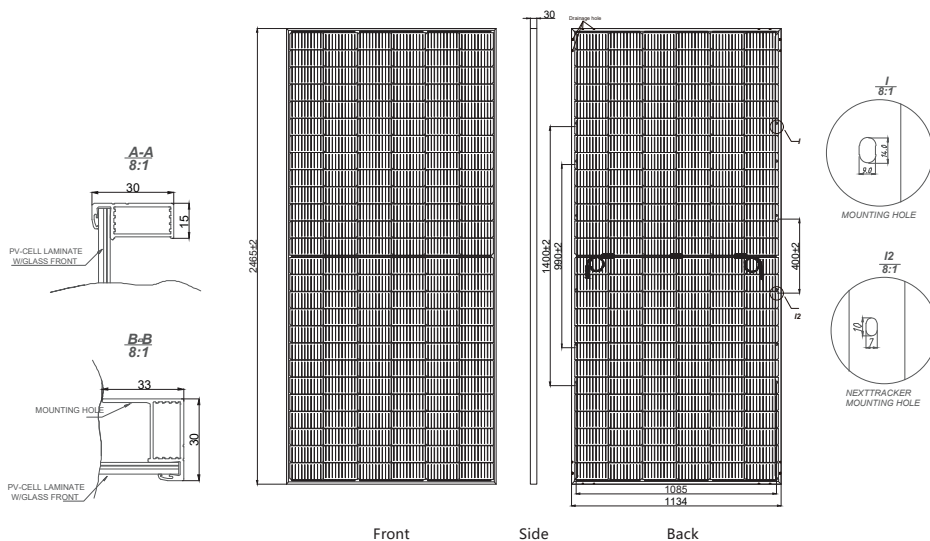
Dimensions

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 legh 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% |

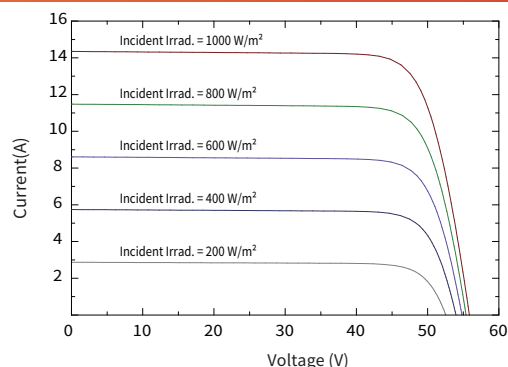
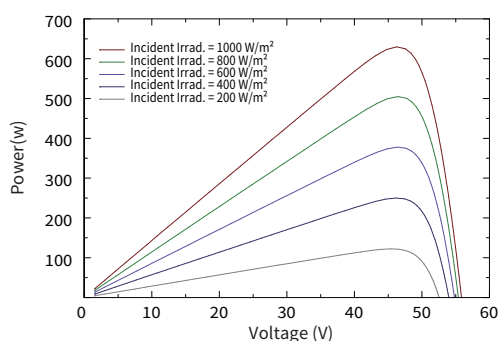
STC: Irradiance 1000W/m², AM=1.5, Cell temperature 25°C.

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/m², Back side reflection irradiation 135W/m², AM=1.5, Cell temperature 25°C.

IV-CURVE



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