Gstar
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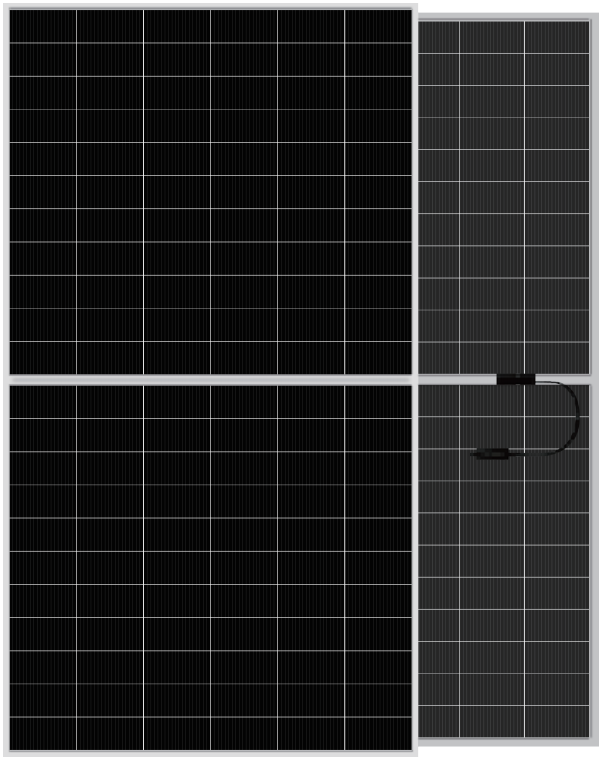
# 210R
# GSD8R66T
## [610-635W]

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**
Modules 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

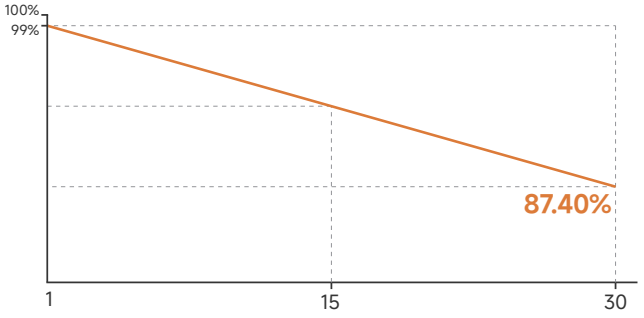
**PID Resistance**
Excellent Anti-PID performance guarantee via optimized mass-production process and materials control

## Guaranteed Power Performance

**15 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.

## GSD8R66T

# 610-635W

Bifacial Dual Glass Half-cut Mono TOPCon

### Weight

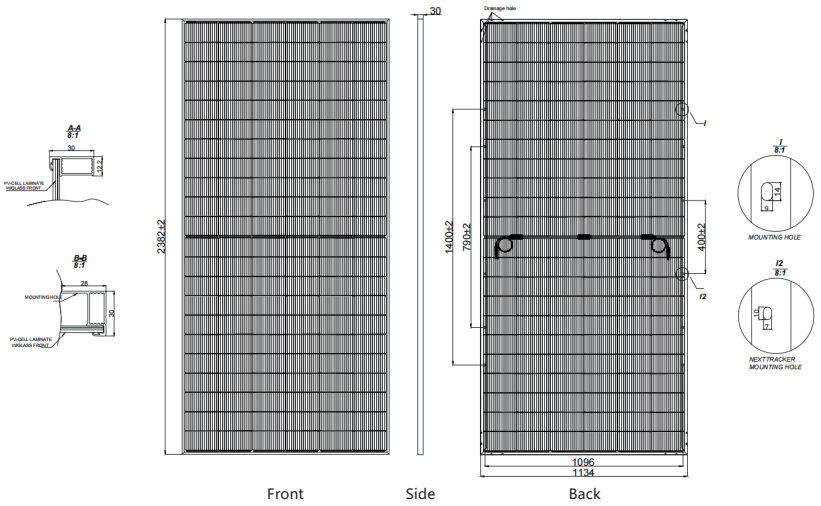
33 kg

### Dimensions

2382X1134X30mm

### Packaging

36pcs/pallet,720pcs/ 40'HQ Container




## OPERATING CONDITIONS

| | |
|---|---|
| Operating Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500V/DC |
| 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 182.3*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 |
| 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 | GSD8R66T-610WT | GSD8R66T-615WT | GSD8R66T-620WT | GSD8R66T-625WT | GSD8R66T-630WT | GSD8R66T-635WT |
|---|---|---|---|---|---|---|
| Maximum Power(Pmax) | 610 | 615 | 620 | 625 | 630 | 635 |
| Maximum Power Voltage (Vmp) | 40.73 | 40.95 | 41.17 | 41.40 | 41.62 | 41.84 |
| Maximum Power Current (Imp) | 14.98 | 15.02 | 15.06 | 15.10 | 15.14 | 15.18 |
| Open-Circuit Voltage (Voc) | 48.54 | 48.76 | 48.98 | 49.20 | 49.42 | 49.64 |
| Short-Circuit Current (Isc) | 15.75 | 15.79 | 15.83 | 15.87 | 15.91 | 15.95 |
| Module Efficiency STC (%) | 22.58% | 22.77% | 22.95% | 23.14% | 23.32% | 23.51% |

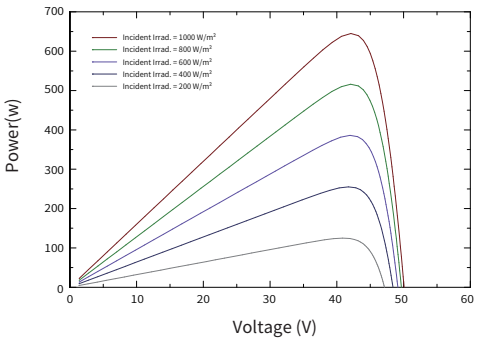
STC: Irradiance 1000W/m²,AM=1.5, Cell temperature 25°C.

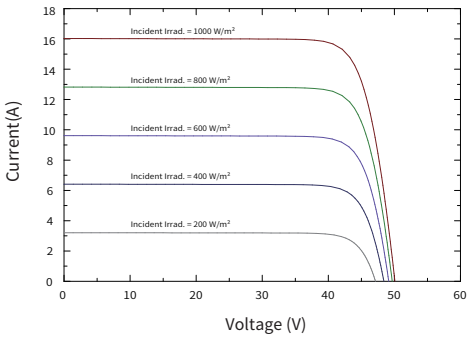
## ELECTRICAL PARAMETERS AT BSTC**

| | | | | | | |
|---|---|---|---|---|---|---|
| Maximum Power(Pmax) | 675 | 680 | 686 | 691 | 697 | 702 |
| Maximum Power Voltage (Vmp) | 40.73 | 40.95 | 41.17 | 41.40 | 41.62 | 41.84 |
| Maximum Power Current (Imp) | 16.58 | 16.61 | 16.67 | 16.7 | 16.75 | 16.78 |
| Open-Circuit Voltage (Voc) | 48.54 | 48.76 | 48.98 | 49.20 | 49.42 | 49.64 |
| Short-Circuit Current (Isc) | 17.42 | 17.46 | 17.51 | 17.55 | 17.59 | 17.64 |
| Module Efficiency STC (%) | 24.99% | 25.17% | 25.40% | 25.58% | 25.80% | 25.99% |

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

## IV-CURVE





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