

BISTAR

GSP8F66M
GSP8F66M(H) **132-cell**

650 - 670W

12BB Half-cut Mono Perc



SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



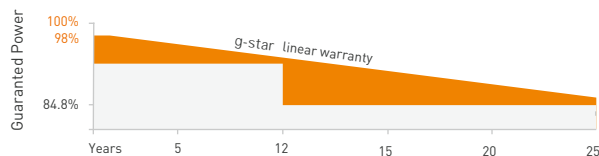
PERFORMANCE WARRANTY

12 Years
Quality Assurance

25 Years
Power Output Guarantee

Linear Performance Warranty

Standard Performance Warranty



KEY FEATURES



12BB Half-cut Cell Technology

New circuit design, lower internal current, lower R_s loss
Ga doped wafer, attenuation $<2\%$ (1st year) / $\leq 0.55\%$ (Linear)



Significantly Lower the Risk of Hot Spot

Special circuit design with much lower hot spot temperature



Lower LCOE

2% more power generation, lower LCOE



Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



IP68 Junction Box

High waterproof level

www.gstar.sg

lyntonlin@gstar-solar.com

* GL-EN-Version 2022.03.01

ELECTRICAL CHARACTERISTICS

| Testing Condition | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 650 | 492 | 655 | 495 | 660 | 499 | 665 | 503 | 670 | 507 |
| Operating Voltage (Vmpp/V) | 37.8 | 35.4 | 38.0 | 35.6 | 38.2 | 35.8 | 38.4 | 36.0 | 38.6 | 36.1 |
| Operating Current (Impp/A) | 17.20 | 13.88 | 17.24 | 13.91 | 17.28 | 13.95 | 17.32 | 13.99 | 17.36 | 14.02 |
| Open-Circuit Voltage (Voc/V) | 45.4 | 42.9 | 45.6 | 43.1 | 45.8 | 43.3 | 46.0 | 43.5 | 46.2 | 43.7 |
| Short-Circuit Current (Isc/A) | 18.29 | 14.74 | 18.33 | 14.77 | 18.37 | 14.81 | 18.41 | 14.84 | 18.45 | 14.87 |
| Module Efficiency (%) | 20.90 | | 21.10 | | 21.30 | | 21.40 | | 21.60 | |

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
 NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

MECHANICAL CHARACTERISTICS

| | |
|-------------------|--|
| Cell Type | Monocrystalline Silicon (12Busbar) |
| No. of Cells | 132pcs in series (6*22) |
| Module Dimensions | 2384*1303*35mm (93.86*51.30*1.38inches) |
| Weight | 34.5kg (76.06lbs.) |
| Front Glass | 3.2mm AR Coating Tempered Glass |
| Frame | Anodized Aluminium Alloy |
| Junction Box | IP68, 3 Bypass Diodes |
| Output Cables | 4mm ² (IEC), 12AWG (UL) 300mm in Length or Customized Length |
| Connectors | T01/LJQ-3-CSY/MC4/MC4-EV02 |

APPLICATION CONDITIONS

| | |
|------------------------------|----------------|
| Maximum System Voltage | 1000V/1500V/DC |
| Operating Temperature | -40° C~+85° C |
| Maximum Series Fuse | 30A |
| Safety Protection Class | Class II |
| Mechanical Load (Front side) | 5400Pa |
| Mechanical Load (Back side) | 2400Pa |

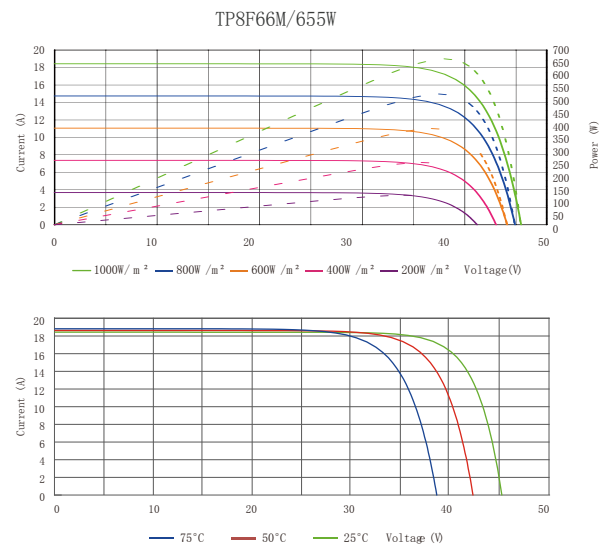
TEMPERATURE CHARACTERISTICS

| | |
|--|-------------|
| Temperature Coefficient of Pmax | -0.34%/° C |
| Temperature Coefficient of Voc | -0.25%/° C |
| Temperature Coefficient of Isc | +0.046%/° C |
| Nominal Module Operating Temperature(NMOT) | 43±2° C |

PACKING CONFIGURATION

| | | |
|-----------------------------|-----|----------|
| Pieces Per Pallet | 31 | 31 (USA) |
| Pieces Per Container(40'HQ) | 527 | 527 |

I-V CURVE



TECHNICAL DRAWINGS

