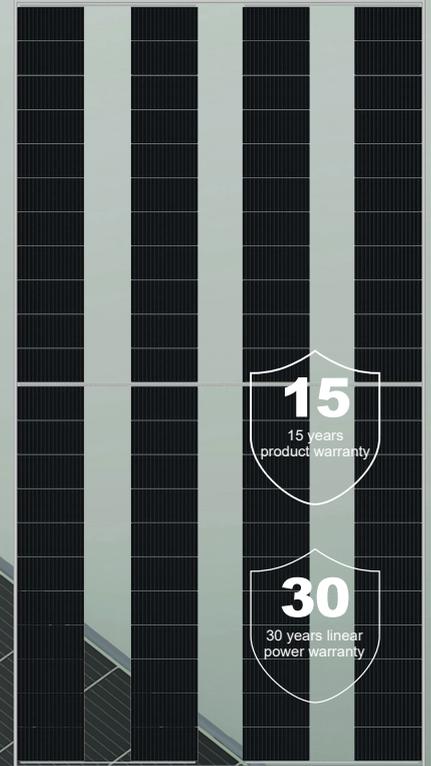


N-Type Bifacial Module designed for Agrivoltaic, balcony GHxxxG12RT-B44HST 415~430W

~33% Transparent area

- **Leading manufacturing**
40+ years experience in high-tech manufacturing.
- **High environmental, social and governance responsibility (ESG)**
100% green production, transparent supply chain and excellent ESG rating in the solar industry.



Zebra Design
High transparent area, fit for agriculture or balcony and carport application.

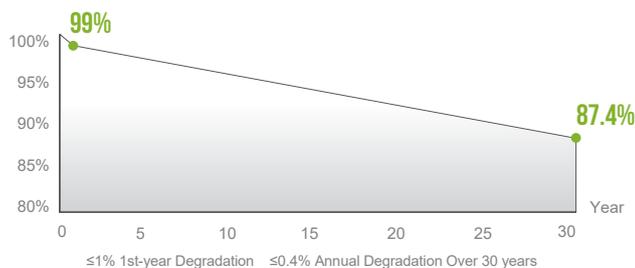


Enhanced Light Scattering tech
Optimized light consistency, mitigate shade impact for plants under solar module.



Green Product
Focus on circular economy - low carbon footprint, PFAS-free and recyclable components.

POWER WARRANTY



COMPANY MANAGEMENT SYSTEM

- SA 8000: ILO Standards. Social responsibility standards
- ISO 9001: Quality management system
- ISO 14001: Environmental management system
- ISO 45001: Occupational health and safety management system
- ISO 50001: Energy management system
- ISO 27001: Information security management system

PRODUCT CERTIFICATION

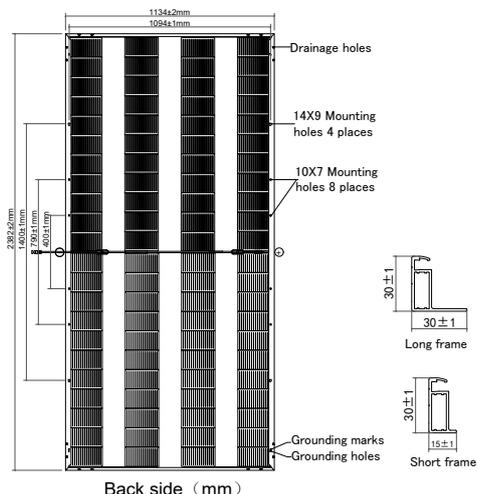
- IEC 61215, IEC 61730
- Ammonia Corrosion (IEC 62716)
- Salt Mist Corrosion (IEC 61701)
- LeTID (IEC TS 63342)



GHxxxG12RT-B44HST

Module Specification

| | |
|-------------------------------------|---|
| Cell Type | N type Mono-crystalline, 88(4x22) |
| Dimensions (mm) | 2382x1134x30 |
| Weight (kg) | 32 |
| Front Cover | 2 mm semi-tempered with anti-reflective coating |
| Rear Cover | 2 mm semi-tempered glass |
| Junction Box | 2 Diodes, IP68 according to IEC 62790 |
| Output Cables (Including Connector) | 4mm ² / 110mm (+)/350mm(-) Length can be customized |
| Connector Type | PV-ZH202B |



Electrical Specifications¹

| Module Type | GH415G12RT-B44HST | | GH420G12RT-B44HST | | GH425G12RT-B44HST | | GH430G12RT-B44HST | |
|-------------------------------|-------------------|-------------------|-------------------|-------|-------------------|-------|-------------------|-------|
| | STC ² | NMOT ³ | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax/W) | 415 | 316 | 420 | 320 | 425 | 324 | 430 | 328 |
| Maximum Power Current (Imp/A) | 14.78 | 12.01 | 14.83 | 12.05 | 14.88 | 12.09 | 14.93 | 12.13 |
| Maximum Power Voltage (Vmp/V) | 28.08 | 26.35 | 28.32 | 26.57 | 28.56 | 26.80 | 28.80 | 27.02 |
| Short-circuit Current (Isc/A) | 15.74 | 12.69 | 15.79 | 12.73 | 15.84 | 12.77 | 15.89 | 12.81 |
| Open-circuit Voltage (Voc/V) | 33.06 | 31.82 | 33.20 | 31.95 | 33.34 | 32.09 | 33.48 | 32.22 |

¹ Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%, Bifaciality: 80%±5%

² STC (Standard Test Condition): Irradiance 1000W/m², Module temperature 25°C, AM=1.5

³ NMOT: Irradiance 800W/m², Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s

Electrical Specifications¹ (BNPI²)

| Nameplate Power (W) | 415 | 420 | 425 | 430 |
|-------------------------------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 459 | 464 | 470 | 475 |
| Maximum Power Current (Imp/A) | 16.31 | 16.37 | 16.42 | 16.48 |
| Maximum Power Voltage (Vmp/V) | 28.11 | 28.35 | 28.59 | 28.83 |
| Short-circuit Current (Isc/A) | 17.32 | 17.37 | 17.43 | 17.48 |
| Open-circuit Voltage (Voc/V) | 33.06 | 33.20 | 33.34 | 33.48 |

¹ Measurements according to IEC 60904-3, Measurement tolerance: Isc: ±4%, Voc: ±3%, Test uncertainty for Pmax: ±3%

² BNPI: Front irradiance 1000W/m², Rear radiation 135W/m², Module temperature 25°C, AM=1.5

Operating conditions

| | |
|-----------------------------------|------------------------|
| Operating Temperature (°C) | -40 to +85 |
| Maximum System Voltage (V) | 1500 DC (IEC) |
| Overcurrent Protection Rating (A) | 30 |
| Power Output Tolerance (%) | 0~3% |
| Protection Class | Class II |
| Max. Test Load, Push/Pull (Pa) | Front 5400 / Back 2400 |
| Max. Design Load, Push/Pull (Pa) | Front 3600 / Back 1600 |

Temperature Characteristics

| | |
|---|---------|
| Nominal Module Operating Temperature (NMOT) | 42±2 °C |
| Temperature Coefficient of Pmax (%/°C) | -0.29 |
| Temperature Coefficient of Voc (%/°C) | -0.25 |
| Temperature Coefficient of Isc (%/°C) | +0.048 |

Packaging

| | |
|------------------------|----------------|
| Container | 40HQ |
| Pallet Dimensions (mm) | 2396x1140x1250 |
| Pieces per Pallet | 36 |
| Pieces per Container | 720 |



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Statement: The installation instructions and the warranty conditions must be followed. Due to technological progress, product parameters will be adjusted accordingly. When signing the contract, the latest data of the company shall prevail. All information in this data sheet corresponds to EN 50380.Changes and errors excepted. Document. EN DS-G12RT-B44HST-20260225.

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