

Solar Galaxy

485–500 Watt MONO-FACIAL MODULE

- IEC61215: 2021
- IEC61730: 2016
- TUV Rheinland Standard
- Lloyd'S Ariel Re
- Solar Performance Insurance
- ISO9001: 2015
- Quality Management System
- ISO14001:
- Environmental Management System
- CE: Europe Standard
- Inmetro Certificate
- Japan JP-AC

KEY FEATURES



12BB Cell

More uniform current collection capability, reducing the current heat loss of the internal cells.



Low Light Features

Higher performance under low light environment.



Higher Output Power

The output power of 100 half-cells Monocrystalline modules is up to 500W.



PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



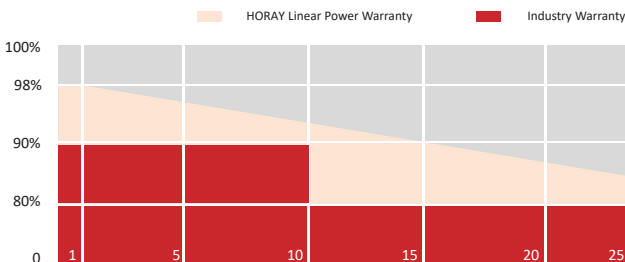
Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by the third party.

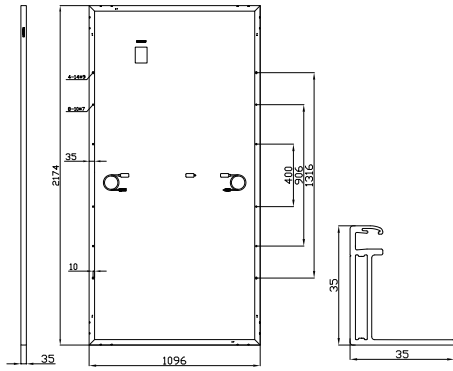


Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa done by TUV.



MECHANICAL DIAGRAMS



SPECIFICATIONS

| | |
|------------------------|--|
| Weight | 28kg |
| Dimension | 2174mm*1096mm*35mm |
| Cell Dimension | 210*105mm |
| Cell Amount | 50*2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 |
| Frame | Aluminum Alloy |
| Cable | 4mm ² , +300,-300mm/±1300mm Length can be customized |
| Connector | MC4 compatible |
| Application Level | Class A |

ELECTRICAL PARAMETERS AT STC

| Module Type | HS485-MHG | HS490-MHG | HS495-MHG | HS500-MHG |
|-----------------------|-----------|-----------|-----------|-----------|
| Power | 485W | 490W | 495W | 500W |
| Open Circuit Voltage | 34.22V | 34.42V | 34.62V | 34.82V |
| Short Circuit Current | 18.05A | 18.13A | 18.21A | 18.29A |
| Maximum Power Voltage | 28.49V | 28.69V | 28.89V | 29.09V |
| Maximum Power Current | 17.03A | 17.08A | 17.13A | 17.19A |
| Module Efficiency | 20.36% | 20.56% | 20.77% | 20.98% |

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

| | | | | |
|-----------------------|--------|--------|--------|--------|
| Power | 368W | 372W | 376W | 380W |
| Open Circuit Voltage | 31.76V | 31.94V | 32.13V | 32.31V |
| Short Circuit Current | 14.80A | 14.87A | 14.93A | 14.99A |
| Maximum Power Voltage | 26.41V | 26.60V | 26.78V | 26.97V |
| Maximum Power Current | 13.94A | 13.99A | 14.04A | 14.09A |
| Module Efficiency | 15.44% | 15.61% | 15.78% | 15.95% |

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

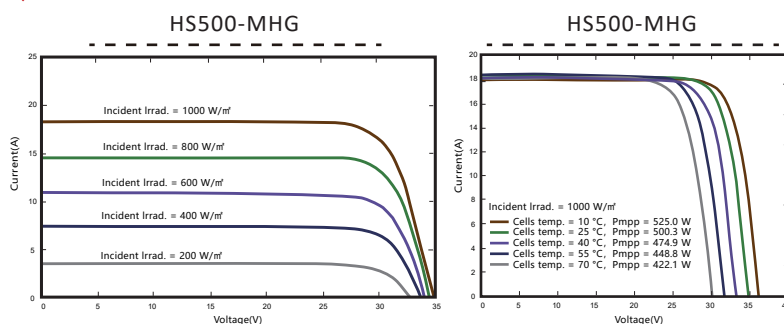
TEMPERATURE CHARACTERISTICS

| | | | |
|-------------------------|-----------|--------------------------|-----------|
| NMOT | 45±2°C | Temp Coefficient of ISC | +0.05%/°C |
| Temp Coefficient of VOC | -0.28%/°C | Temp Coefficient of Pmax | -0.34%/°C |

PACKING CONFIGURATION

| | | | |
|-----------------------|---|-----------------------|------------|
| Modules/Pallet | 31 Pieces | Modules/40' Container | 620 Pieces |
| Packaging Description | 20 Pallets, Total=(31+31)x10=620 Pieces | | |

IV CHARACTERISTICS



MAXIMUM RATING

| | |
|-----------------------------|---------------|
| Power selection | 0~+5W |
| Measuring uncertainty of Pm | 0~±3% |
| Operating Temperature | -40°C~+85°C |
| Wind Load/Snow Load | 2400pa/5400pa |
| Fuse Current | 30A |

15 YEARS Quality Warranty

25 YEARS Power Warranty

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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