

Mono

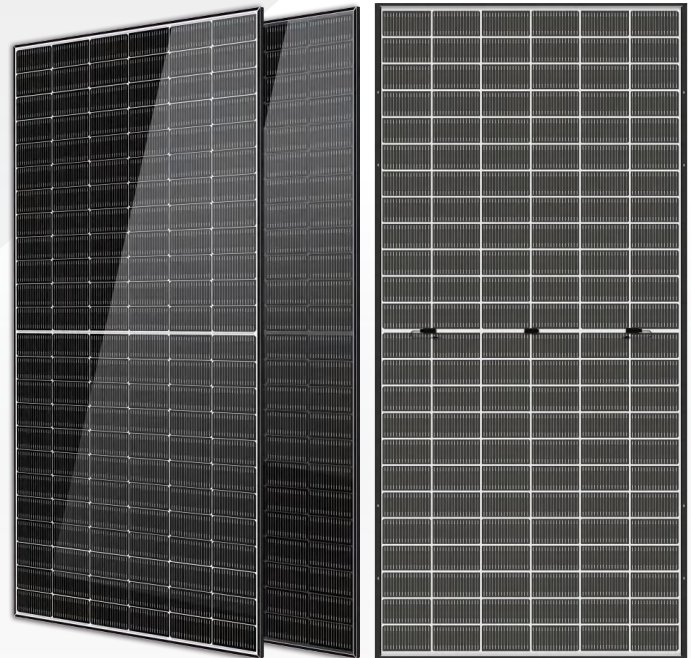
Bifacial

# HORAY

## Solar Galaxy

### 600–620 Watt N-Type MONO-BIFACIAL MODULE

- IEC61215: 2021
- IEC61730: 2023
- 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
- China Quality Certification Centre
- Solar product certification



#### KEY FEATURES



##### SMBB 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 144 half-cells Monocrystalline modules is up to 620W.



##### LID Free

N-type solar cell has no LID naturally which can increase power generation.



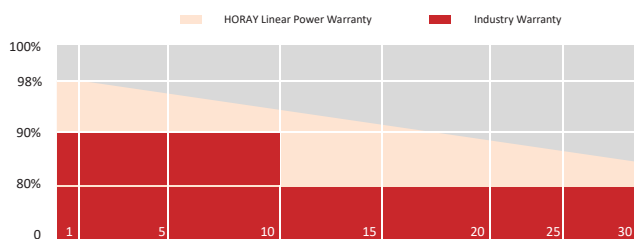
##### Harsh Environmental Adaptability

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.



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## SPECIFICATIONS

|                         |  |
|-------------------------|--|
| Weight                  | 33.8kg   |
| Dimension               | 2382mm*1134mm*30mm                                     |
| Cell Dimension          | 182.2*95.8mm   |
| Cell Amount             | 72*2 pcs   |
| Maximum System Voltage  | 1500V  |
| Junction Box            | IP68   |
| Type of the front glass | 2.0mm Coated ultra clear glass                         |
| Type of the back glass  | 2.0mm Heat-strengthened glass                          |
| Frame                   | Aluminum Alloy   |
| Cable                   | 4mm <sup>2</sup> ,+300,-300mm;Length can be customized |
| Connector               | MC4 compatible   |
| Application Level       | Class A  |

## ELECTRICAL PARAMETERS AT STC

| Module Type           | HS600TC-MHB-D | HS605TC-MHB-D | HS610TC-MHB-D | HS615TC-MHB-D | HS620TC-MHB-D |
|-----------------------|---------------|---------------|---------------|---------------|---------------|
| Power                 | 600W          | 605W          | 610W          | 615W          | 620W          |
| Open Circuit Voltage  | 51.8V         | 52V           | 52.2V         | 52.4V         | 52.6V         |
| Short Circuit Current | 14.54A        | 14.6A         | 14.66A        | 14.72A        | 14.78A        |
| Maximum Power Voltage | 44V           | 44.2V         | 44.4V         | 44.6V         | 44.8V         |
| Maximum Power Current | 13.64A        | 13.69A        | 13.74A        | 13.79A        | 13.84A        |
| Module Efficiency     | 22.20%        | 22.40%        | 22.60%        | 22.80%        | 23.00%        |

\* Under Standard Test Conditions (STC) of irradiance of 1000 W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## ELECTRICAL PARAMETERS AT BNPI

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 660W   | 666W   | 671W   | 677W   | 682W   |
| Open Circuit Voltage  | 51.8V  | 52V    | 52.2V  | 52.4V  | 52.6V  |
| Short Circuit Current | 15.99A | 16.06A | 16.13A | 16.19A | 16.26A |
| Maximum Power Voltage | 44V    | 44.2V  | 44.4V  | 44.6V  | 44.8V  |
| Maximum Power Current | 15.00A | 15.06A | 15.11A | 15.17A | 15.22A |

\*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.It depends on mounting (structure,height,tilt angle etc.)and albedo of the ground.

## ELECTRICAL PARAMETERS AT NMOT

|                       |        |        |        |        |        |
|-----------------------|--------|--------|--------|--------|--------|
| Power                 | 503W   | 507W   | 511W   | 515W   | 520W   |
| Open Circuit Voltage  | 51.8V  | 52V    | 52.2V  | 52.4V  | 52.6V  |
| Short Circuit Current | 11.08A | 11.13A | 11.17A | 11.22A | 11.26A |
| Maximum Power Voltage | 44V    | 44.2V  | 44.4V  | 44.6V  | 44.8V  |
| Maximum Power Current | 10.39A | 10.43A | 10.47A | 10.51A | 10.55A |

\* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

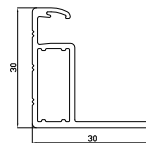
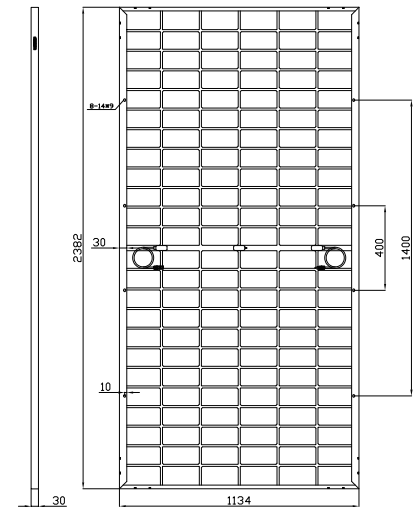
## TEMPERATURE CHARACTERISTICS

|                          |           |
|--------------------------|-----------|
| 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 |

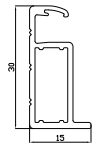
## PACKING CONFIGURATION

|                       |   |
|-----------------------|---|
| Modules/Pallet        | 36 Pieces                               |
| Packaging Description | 20 Pallets, Total=(36+36)x10=720 Pieces |
| Modules/40' Container | 720 Pieces                              |

## MECHANICAL DIAGRAMS

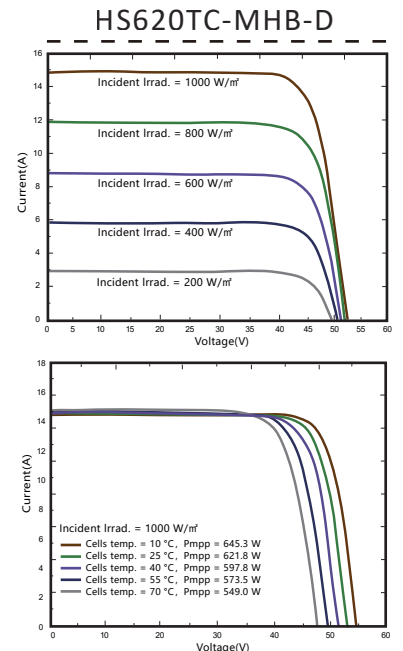


Section diagram of long frame profile



Section diagram of short frame profile

## 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

30 YEARS

Power  
Warranty

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

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