

Mono

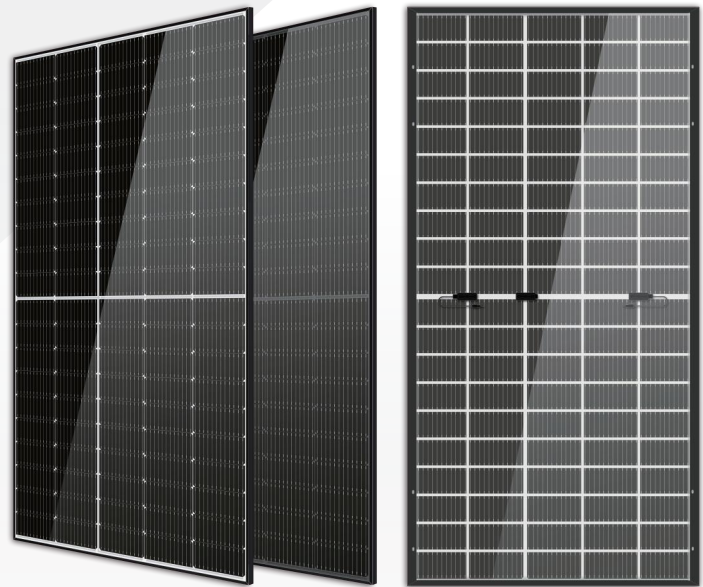
Bifacial

# HORAY

## Solar Galaxy

### 485–500 Watt MONO-BIFACIAL 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.



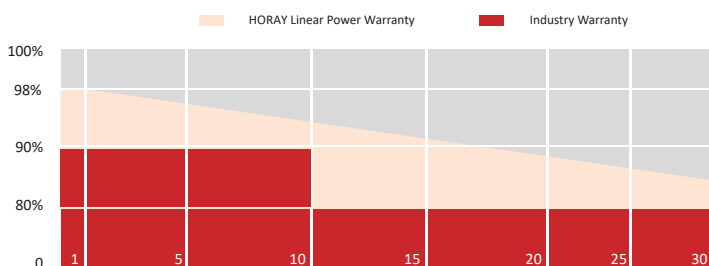
##### Harsh Environmental Adaptability

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.



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## SPECIFICATIONS

Weight	31.0kg
Dimension	2174mm*1096mm*35mm
Cell Dimension	210*105mm
Cell Amount	50*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/±1300mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

## ELECTRICAL PARAMETERS AT STC

Module Type	HS485-MHG-D	HS490-MHG-D	HS495-MHG-D	HS500-MHG-D
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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

## ELECTRICAL PARAMETERS AT BNPI

Power	531W	537W	542W	548W
Open Circuit Voltage	34.22V	34.42V	34.62V	34.82V
Short Circuit Current	19.40A	19.49A	19.57A	19.65A
Maximum Power Voltage	28.49V	28.69V	28.89V	29.09V
Maximum Power Current	18.64A	18.70A	18.76A	18.82A

\*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	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/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

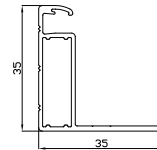
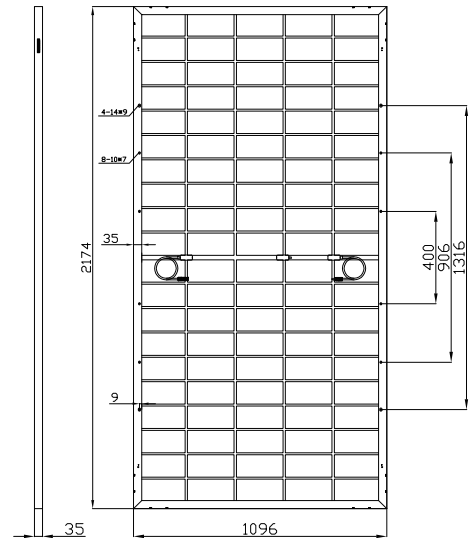
## TEMPERATURE CHARACTERISTICS

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

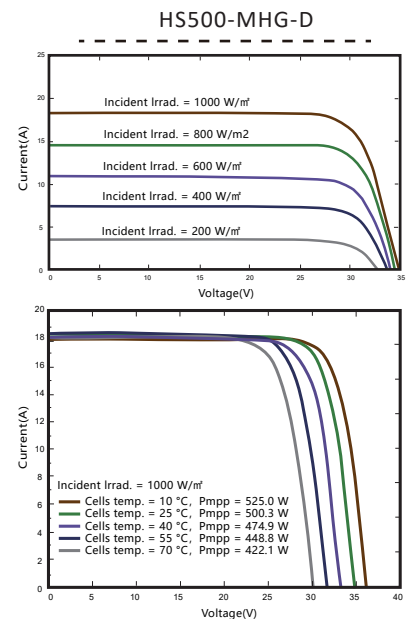
## PACKING CONFIGURATION

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

## MECHANICAL DIAGRAMS



## 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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