

Mono

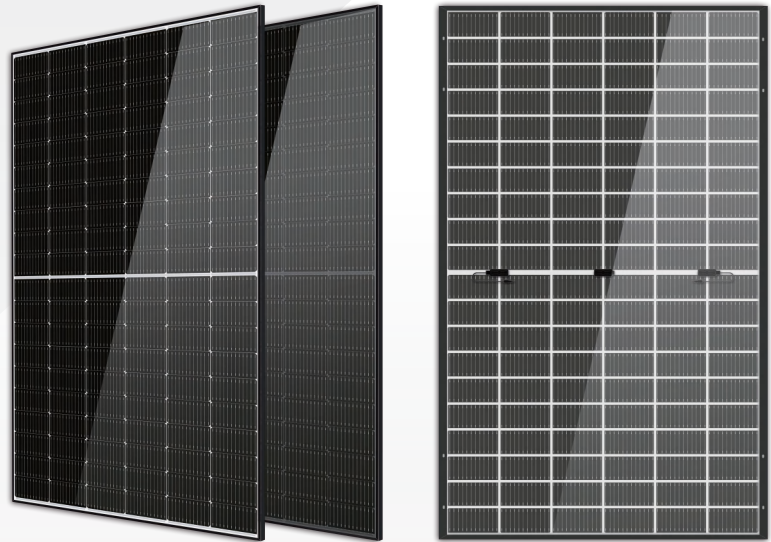
Bifacial

# HORAY

## Solar Galaxy

### 610–635 Watt N-Type 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



##### 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 120 half-cells Monocrystalline modules is up to 635W.



##### LID Free

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



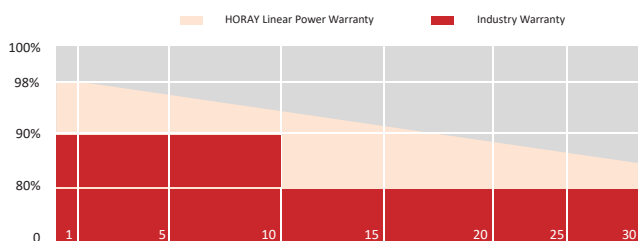
##### Harsh Environmental Adaptability

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.



HEADQUARTER: HORAY SOLAR CO., LTD.

GLOBAL MARKETING AND SERVICE: HORAY SOLAR GMBH

✉ sales@horaysolar.com 🌐 www.horaysolar.com ☎ +86-510 83580688  
 📍 NO.30-5, East Yanxin Road, Huishan District, Wuxi 214177 Jiangsu P.R China

✉ info@horaysolar.com 🌐 www.horaysolar.com  
 📍 Robert-Bosch-Str. 29, Langen, Frankfurt am Main, Germany

## SPECIFICATIONS

Weight	31kg
Dimension	2174mm*1303mm*35mm
Cell Dimension	210*105mm
Cell Amount	60*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	HS610TC-MHG-D	HS615TC-MHG-D	H620TC-MHG-D	HS625TC-MHG-D	HS630TC-MHG-D	HS635TC-MHG-D
Power	610W	615W	620W	625W	630W	635W
Open Circuit Voltage	43.98V	44.10V	44.22V	44.40V	44.64V	45.00V
Short Circuit Current	17.94A	17.97A	18.02A	18.06A	18.10A	18.14A
Maximum Power Voltage	37.80V	37.89V	38.10V	38.22V	38.34V	38.46V
Maximum Power Current	16.14A	16.23A	16.27A	16.35A	16.43A	16.51A
Module Efficiency	21.53%	21.71%	21.89%	22.06%	22.24%	22.42%

\* 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	671W	677W	682W	688W	693W	699W
Open Circuit Voltage	43.98V	44.10V	44.22V	44.40V	44.64V	45.00V
Short Circuit Current	19.73A	19.77A	19.82A	19.86A	19.91A	19.95A
Maximum Power Voltage	37.80V	37.89V	38.10V	38.22V	38.34V	38.46V
Maximum Power Current	17.75A	17.85A	17.90A	17.99A	18.08A	18.16A

\*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	465W	469W	472W	476W	480W	484W
Open Circuit Voltage	43.98V	44.10V	44.22V	44.40V	44.64V	45.00V
Short Circuit Current	13.67A	13.69A	13.73A	13.76A	13.79A	13.82A
Maximum Power Voltage	37.80V	37.89V	38.10V	38.22V	38.34V	38.46V
Maximum Power Current	12.30A	12.37A	12.40A	12.46A	12.52A	12.58A

\* 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.

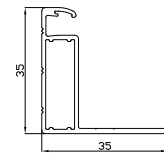
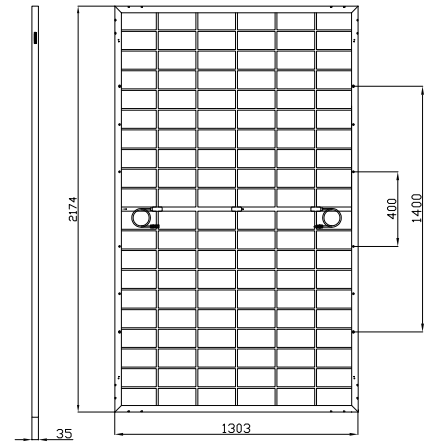
## TEMPERATURE CHARACTERISTICS

NMOT	45±2°C
Temp Coefficient of ISC	+0.04%/°C
Temp Coefficient of VOC	-0.23%/°C
Temp Coefficient of Pmax	-0.28%/°C

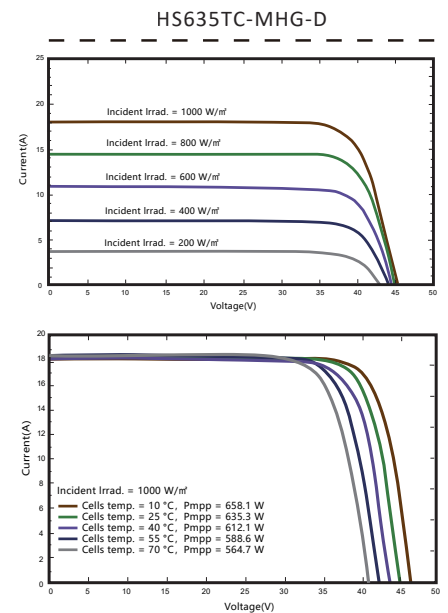
## PACKING CONFIGURATION

Modules/Pallet	31 Pieces
Packaging Description	18 Pallets, Total=(31+31)x9=558 Pieces
Modules/40' Container	558 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



Quality  
Warranty



Power  
Warranty

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

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