

Mono

Bifacial

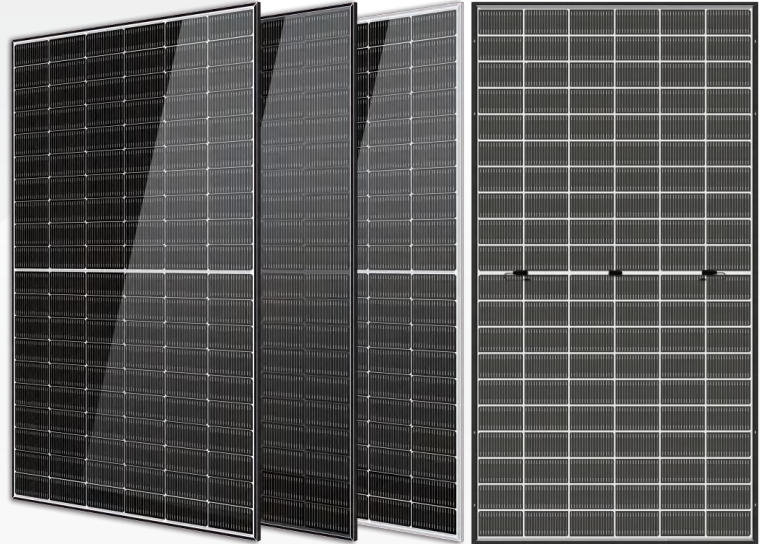
# HORAY

## Solar Galaxy

### 550–570 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 120 half-cells Monocrystalline modules is up to 570W.



##### LID Free

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



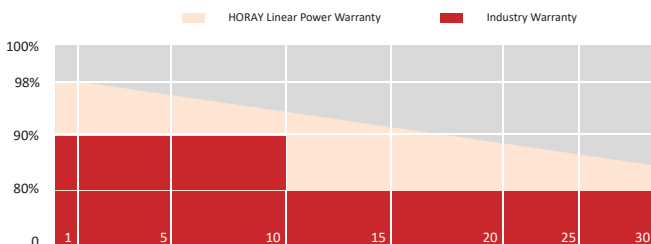
##### Harsh Environmental Adaptability

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	30.5kg
Dimension	2178mm*1134mm*30mm
Cell Dimension	182*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;Length can be customized
Connector	MC4 compatible
Application Level	Class A

## ELECTRICAL PARAMETERS AT STC

Module Type	HS550TC-MHC-D	HS555TC-MHC-D	HS560TC-MHC-D	HS565TC-MHC-D	HS570TC-MHC-D
Power	550W	555W	560W	565W	570W
Open Circuit Voltage	44.18V	44.40V	44.62V	44.83V	45.05V
Short Circuit Current	15.82A	15.88A	15.95A	16.01A	16.08A
Maximum Power Voltage	36.72V	36.90V	37.08V	37.26V	37.44V
Maximum Power Current	14.98A	15.04A	15.10A	15.16A	15.22A
Module Efficiency	22.27%	22.47%	22.67%	22.88%	23.08%

\* 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	605W	611W	616W	622W	627W
Open Circuit Voltage	44.18V	44.40V	44.62V	44.83V	45.05V
Short Circuit Current	17.40A	17.47A	17.54A	17.62A	17.69A
Maximum Power Voltage	36.72V	36.9V	37.08V	37.26V	37.44V
Maximum Power Current	16.48A	16.54A	16.61A	16.68A	16.75A

\*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	419W	423W	427W	431W	434W
Open Circuit Voltage	41.97V	42.18V	42.38V	42.59V	42.79V
Short Circuit Current	12.77A	12.83A	12.88A	12.93A	12.98A
Maximum Power Voltage	34.20V	34.36V	34.53V	34.70V	34.87V
Maximum Power Current	12.26A	12.31A	12.36A	12.41A	12.46A

\* 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.

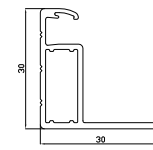
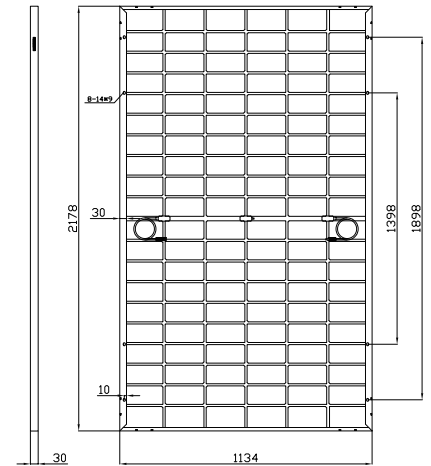
## TEMPERATURE CHARACTERISTICS

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

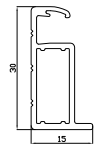
## PACKING CONFIGURATION

Modules/Pallet	37 Pieces
Packaging Description	20 Pallets, Total=(37+37)x10=740 Pieces
Modules/40' Container	740 Pieces

## MECHANICAL DIAGRAMS



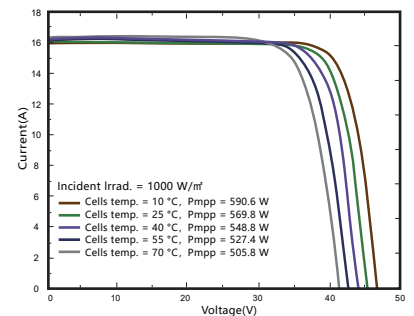
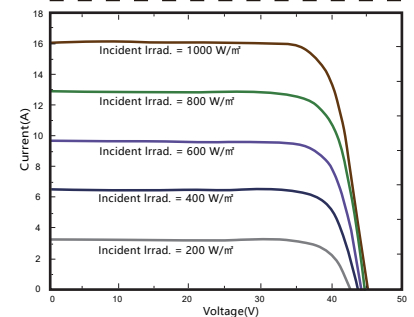
Section diagram of long frame profile



Section diagram of short frame profile

## CHARACTERISTICS

### HS570TC-MHC-D



## 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