

Mono

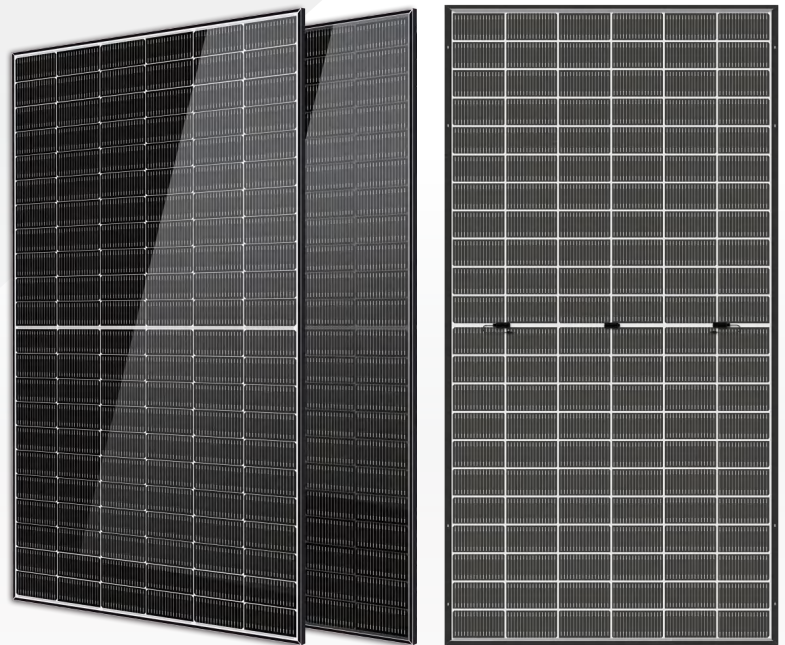
Bifacial

# HORAY

## Solar Ocean

### 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 132 half-cells Monocrystalline modules is up to 570W.



##### LID Free

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



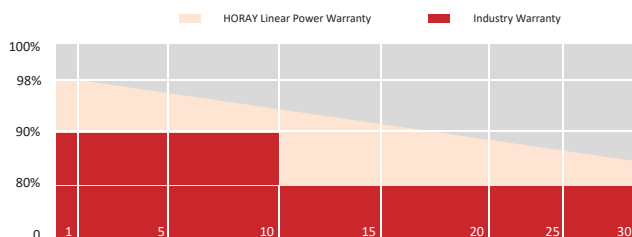
##### Harsh Environmental Adaptability

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	2188mm*1134mm*30mm
Cell Dimension	182.2*95.8mm
Cell Amount	66*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-MHB-D	HS555TC-MHB-D	HS560TC-MHB-D	HS565TC-MHB-D	HS570TC-MHB-D
Power	550W	555W	560W	565W	570W
Open Circuit Voltage	47.55V	47.76V	47.98V	48.05V	48.41V
Short Circuit Current	14.52A	14.59A	14.65A	14.76A	14.78A
Maximum Power Voltage	40.33V	40.52V	40.70V	40.76V	41.07V
Maximum Power Current	13.64A	13.70A	13.76A	13.86A	13.88A
Module Efficiency	22.17%	22.37%	22.57%	22.77%	22.97%

\* 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	47.55V	47.76V	47.98V	48.05V	48.41V
Short Circuit Current	15.97A	16.05A	16.12A	16.24A	16.26A
Maximum Power Voltage	40.33V	40.52V	40.70V	40.76V	41.07V
Maximum Power Current	15.00A	15.07A	15.14A	15.25A	15.27A

\*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	461W	465W	469W	474W	478W
Open Circuit Voltage	47.55V	47.76V	47.98V	48.05V	48.41V
Short Circuit Current	11.07A	11.12A	11.17A	11.25A	11.26A
Maximum Power Voltage	40.33V	40.52V	40.70V	40.76V	41.07V
Maximum Power Current	10.39A	10.44A	10.48A	10.56A	10.58A

\* 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.

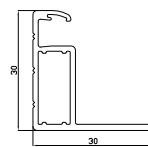
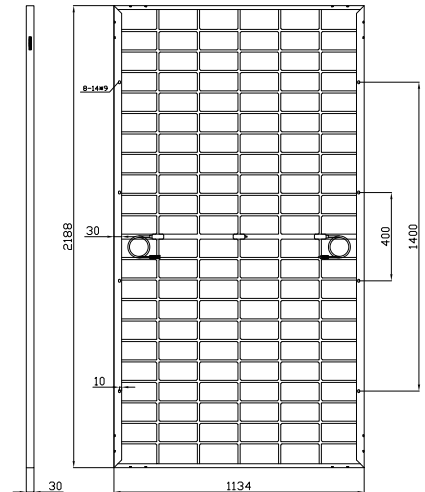
## TEMPERATURE CHARACTERISTICS

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

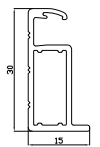
## PACKING CONFIGURATION

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

## MECHANICAL DIAGRAMS



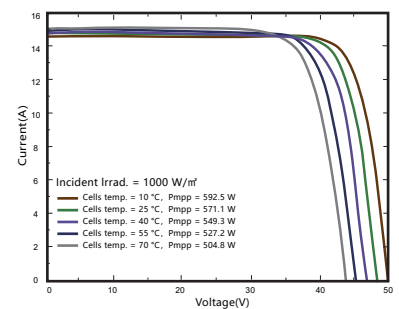
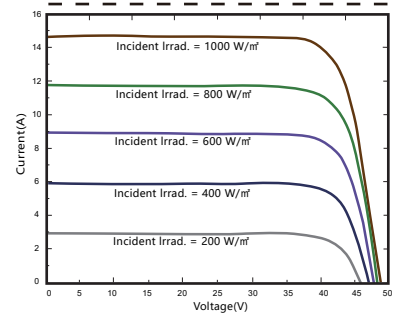
Section diagram of long frame profile



Section diagram of short frame profile

## IV CHARACTERISTICS

### HS570TC-MHB-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