Mono Bifacial

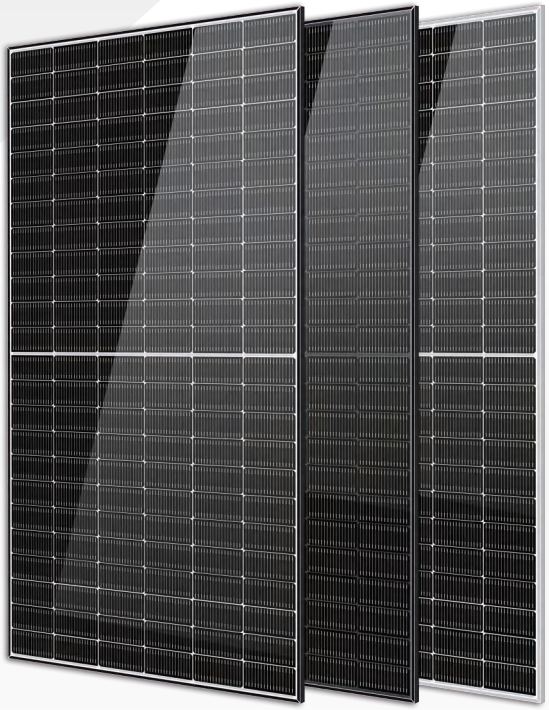
HORAY | TIER1 BloombergNEF

Solar Ocean

570–590 Watt N–Type

MONO–FACIAL 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.

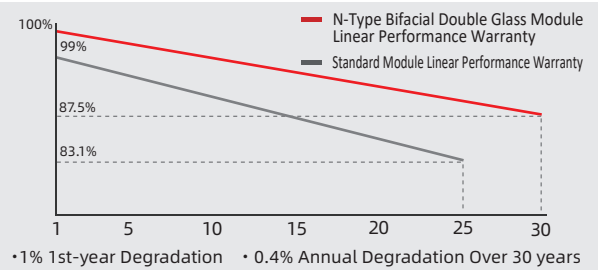
Low Light Features
Higher performance under low light environment.

Higher Output Power
The output power of 144 half-cells Monocrystalline modules is up to 590W.

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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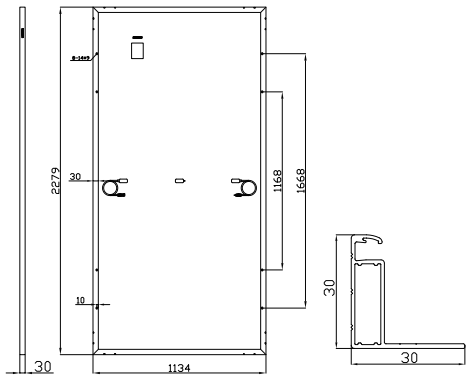
MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	26.0kg
Dimension	2279mm*1134mm*30mm
Cell Dimension	182*91mm
Cell Amount	72*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm²,+300,-300mm/±1300mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	HS570TC-MHO	HS575TC-MHO	HS580TC-MHO	HS585TC-MHO	HS590TC-MHO
Power	570W	575W	580W	585W	590W
Open Circuit Voltage	51.19V	51.30V	51.41V	51.52V	51.63V
Short Circuit Current	14.05A	14.14A	14.22A	14.30A	14.38A
Maximum Power Voltage	43.01V	43.11V	43.22V	43.33V	43.44V
Maximum Power Current	13.26A	13.34A	13.42A	13.51A	13.59A
Module Efficiency	22.06%	22.25%	22.50%	22.60%	22.80%

* Under Standard Test Conditions (STC) of irradiance of 1000 W/㎡, spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NMOT

Power	432W	436W	439W	444W	448W
Open Circuit Voltage	48.41V	48.52V	48.62V	48.73V	48.94V
Short Circuit Current	11.35A	11.43A	11.49A	11.55A	11.62A
Maximum Power Voltage	40.21V	40.31V	40.42V	40.53V	40.72V
Maximum Power Current	10.74A	10.81A	10.87A	10.94A	11.01A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/㎡, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

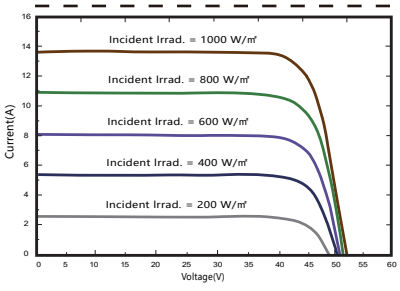
NMOT	45±2°C	Temp Coefficient of ISC	+0.04%/°C
Temp Coefficient of VOC	-0.23%/°C	Temp Coefficient of Pmax	-0.28%/°C

PACKING CONFIGURATION

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

IV CHARACTERISTICS

HS590TC-MHO



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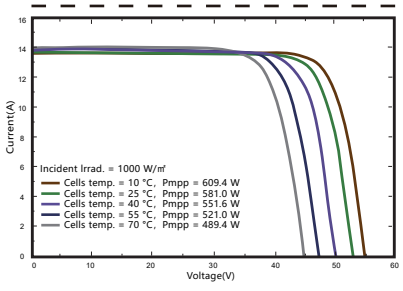

MAXIMUM RATING

Power selection	0~+5W
Measuring uncertainty of Pm	0~±3%
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	25A

12 YEARS Quality Warranty

30 YEARS Power Warranty

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

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