

Mono

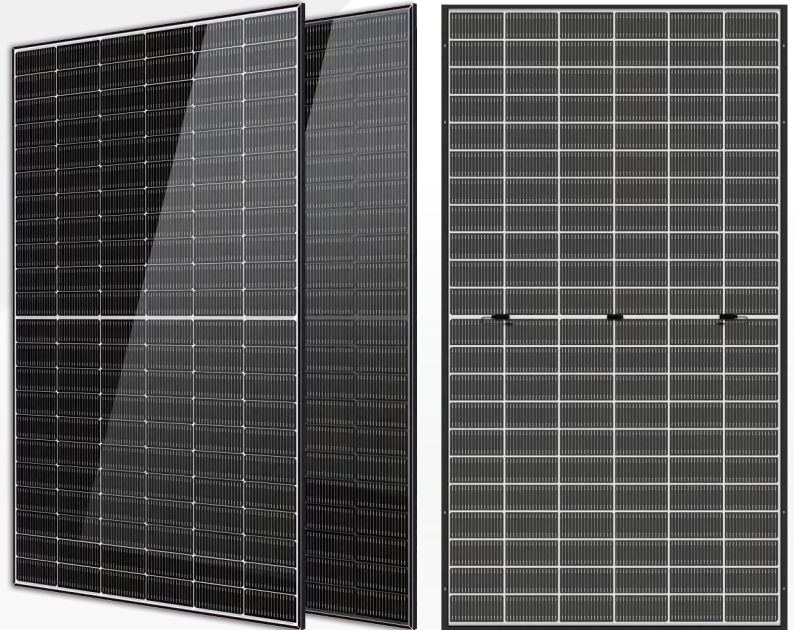
Bifacial

HORAY

Solar Ocean

515–535 Watt TOPCon 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



MBB 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 535W.



LID Free

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



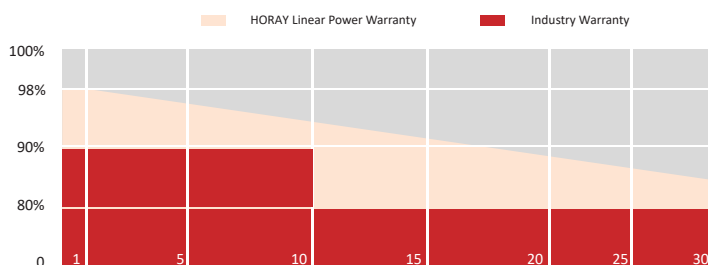
Harsh Environmental Adaptability

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	31.0kg
Dimension	2094mm*1134mm*35mm
Cell Dimension	182*91mm
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 ² ,+300,-300mm/±1200mm Length can be customized
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	HS515TC-MHO-D	HS520TC-MHO-D	HS525TC-MHO-D	HS530TC-MHO-D	HS535TC-MHO-D
Power	515W	520W	525W	530W	535W
Open Circuit Voltage	48.55V	48.95V	49.26V	49.57V	49.77V
Short Circuit Current	13.49A	13.52A	13.55A	13.60A	13.67A
Maximum Power Voltage	40.46V	40.79V	41.05V	41.31V	41.48V
Maximum Power Current	12.73A	12.75A	12.79A	12.83A	12.90A
Module Efficiency	21.69%	21.90%	22.11%	22.32%	22.53%

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

ELECTRICAL PARAMETERS AT BNPI

Power	562W	568W	573W	578W	584W
Open Circuit Voltage	48.55V	48.95V	49.26V	49.57V	49.77V
Short Circuit Current	14.72A	14.76A	14.80A	14.83A	14.92A
Maximum Power Voltage	40.46V	40.79V	41.05V	41.31V	41.48V
Maximum Power Current	13.89A	13.93A	13.96A	13.99A	14.08A

*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	412W	416W	420W	424W	428W
Open Circuit Voltage	48.58V	48.93V	49.27V	49.60V	49.78V
Short Circuit Current	10.79A	10.81A	10.84A	10.88A	10.93A
Maximum Power Voltage	40.48V	40.78V	41.06V	41.33V	41.48V
Maximum Power Current	10.18A	10.20A	10.23A	10.26A	10.32A
Module Efficiency	17.35%	17.52%	17.69%	17.86%	18.02%

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

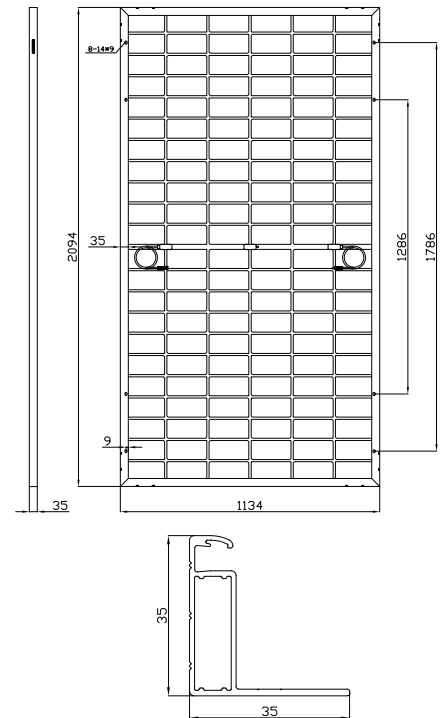
TEMPERATURE CHARACTERISTICS

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

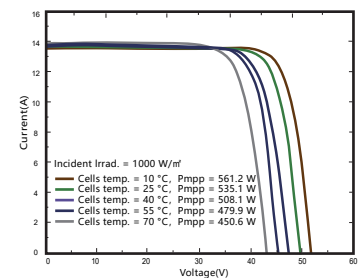
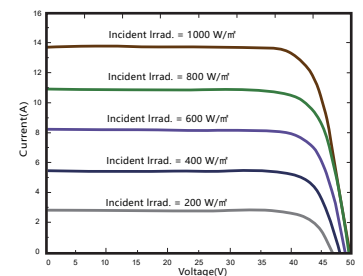
Modules/Pallet	31 Pieces
Packaging Description	22 Pallets, Total=(31+31)x11=682 Pieces
Modules/40' Container	682 Pieces

MECHANICAL DIAGRAMS



CHARACTERISTICS

HS535TC-MHO-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	25A

30 YEARS Quality Warranty

30 YEARS Power Warranty