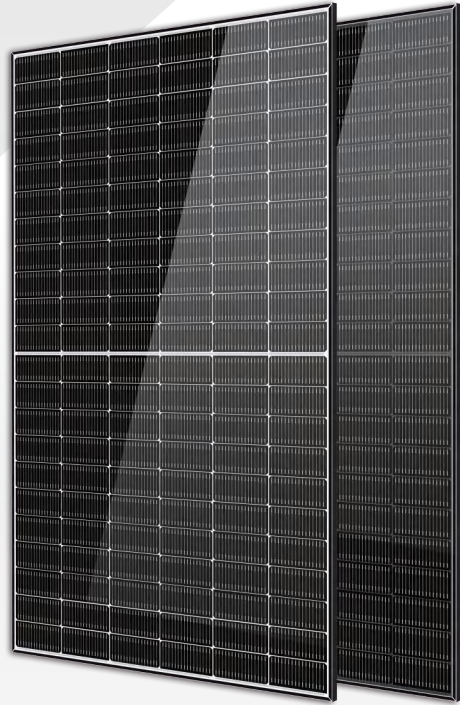


Solar Ocean

520–540 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 132 half-cells Monocrystalline modules is up to 540W.



LID Free

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



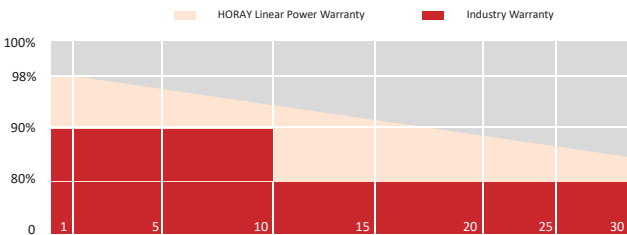
Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by the third party.

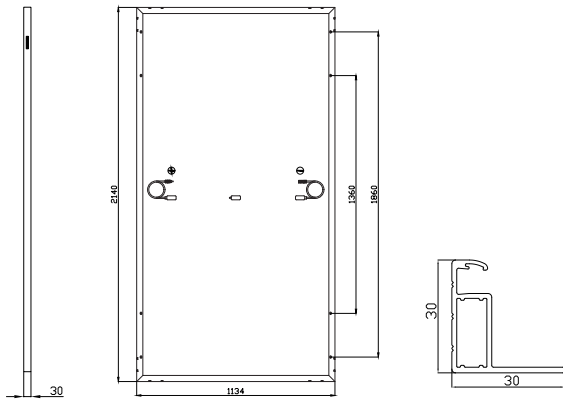


Load Capacity

Mechanical load tests including wind load 2400 Pa and snow load 5400 Pa.



MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	26kg
Dimension	2140mm*1134mm*30mm
Cell Dimension	182.2*93.4mm
Cell Amount	66*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² , +300,-300mm, Length can be customized
Connector	MC4 compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	HS520TC-MHA	HS525TC-MHA	HS530TC-MHA	HS535TC-MHA	HS540TC-MHA
Power	520W	525W	530W	535W	540W
Open Circuit Voltage	46.98V	47.14V	47.30V	47.50V	47.68V
Short Circuit Current	14.01A	14.10A	14.19A	14.26A	14.34A
Maximum Power Voltage	39.20V	39.34V	39.47V	39.64V	39.79V
Maximum Power Current	13.26A	13.35A	13.43A	13.50A	13.57A
Module Efficiency	21.5%	21.7%	21.9%	22.1%	22.3%

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

ELECTRICAL PARAMETERS AT NMOT

Power	396W	400W	404W	408W	411W
Open Circuit Voltage	46.98V	47.14V	47.30V	47.50V	47.68V
Short Circuit Current	10.68A	10.74A	10.81A	10.87A	10.92A
Maximum Power Voltage	39.20V	39.34V	39.47V	39.64V	39.79V
Maximum Power Current	10.11A	10.17A	10.23A	10.29A	10.34A

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

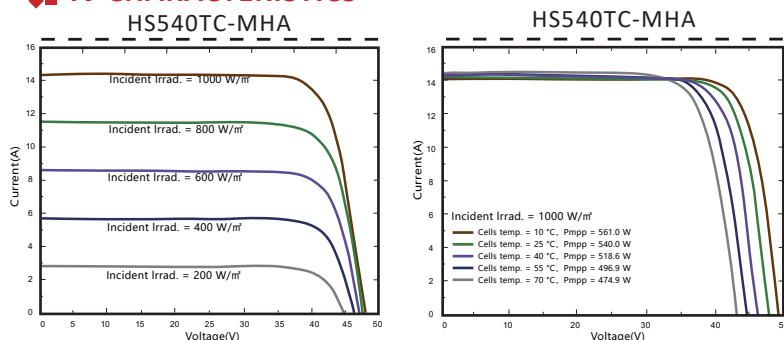
TEMPERATURE CHARACTERISTICS

NMOT	45±2°C	Temp Coefficient of ISC	+0.04%/°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



MAXIMUM RATING

Power selection	0~+5W
Measuring uncertainty of P _m	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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