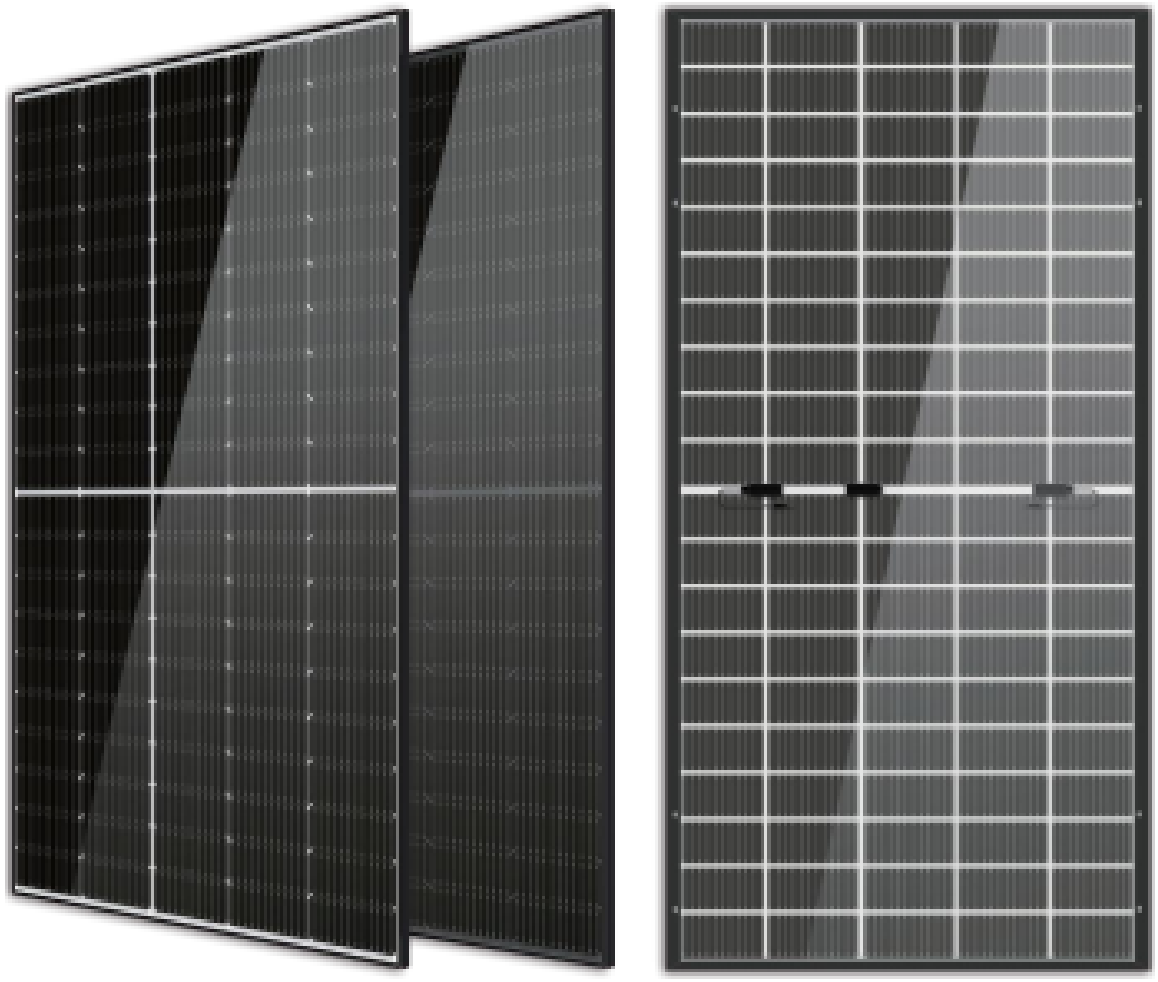
SUN MAX

510-535 Watt N-Type 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 Certiicate
- Japan JP-AC



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Feature

MBB Cell
More uniform current collecon capability, reducing the current heat loss of the internal cells.

Higher Output Power
The output power of 100 half-cells Monocrystalline modules is up to 535W

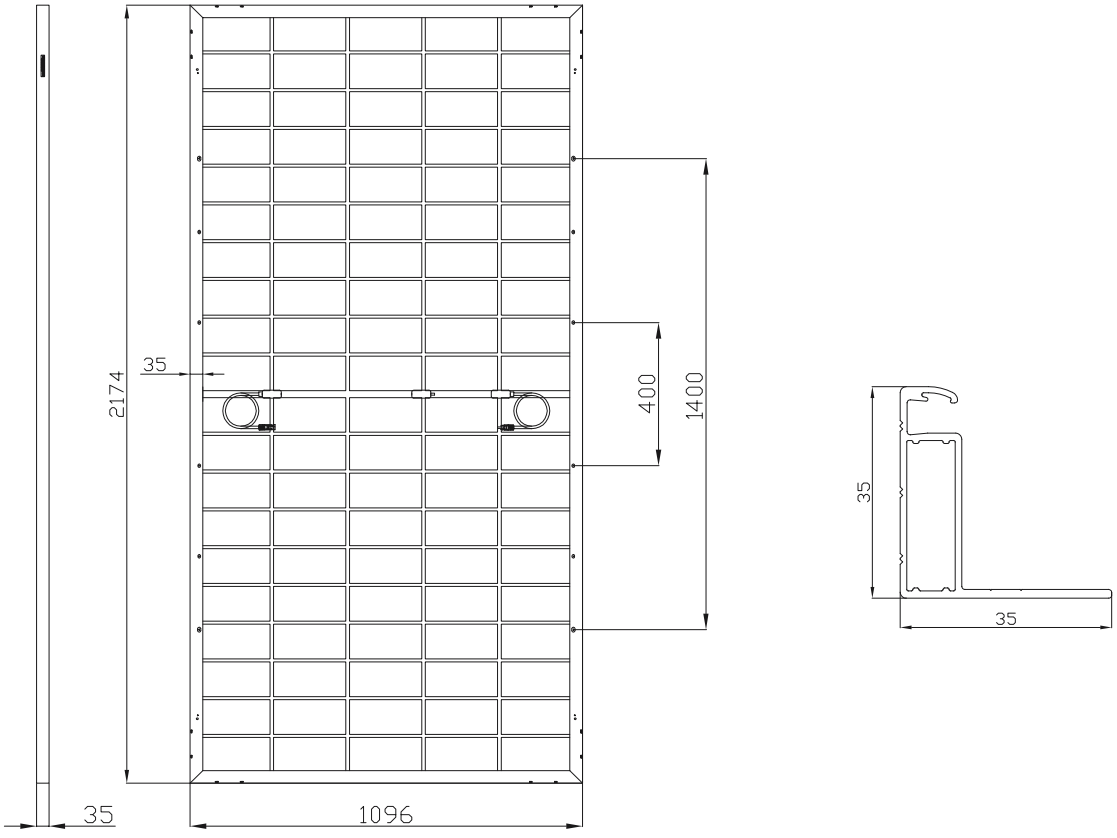
Harsh Environmental Adaptability
Strict salt spray and ammonia corrosiontest by the third party.

Low Light Features
Higher performance under low light environment.

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

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

Mechanical Diagrams



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Specifications

Weight	28kg
Dimension	2174mm*1096mm*35mm
Cell Dimension	210*105mm
Cell Amount	50*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	4mm²,+300,-300mm/±1300mmLength can be customized
Connector	MC4 compatible
Application Level	Class A

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	31 Pieces
Packaging Description	18 Pallets, Total=(31+31)x9=558 Pieces
Modules/40'Container	558 Pieces

Electrical Parameters At Stc

Module Type	HS510TC-MHG-D	HS515TC-MHG-D	H520TC-MHG-D	HS525TC-MHG-D	HS530TC-MHG-D	HS530TC-MHG-D
Power	510W	515W	520W	525W	530W	535W
Open Circuit Voltage	36.55V	36.65V	36.75V	36.85V	37.00V	37.45V
Short Circuit Current	17.51V	17.60V	17.72V	17.80V	17.86V	17.92V
Maximum Power Voltage	31.45V	31.60V	31.70V	31.85V	32.05V	32.25V
Maximum Power Current	16.22V	16.30V	16.40V	16.48V	16.54V	16.59V
Module Efficiency	0.214	0.2161	0.2182	0.2203	0.2224	0.2245

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

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Electrical Parameters At Bnpi

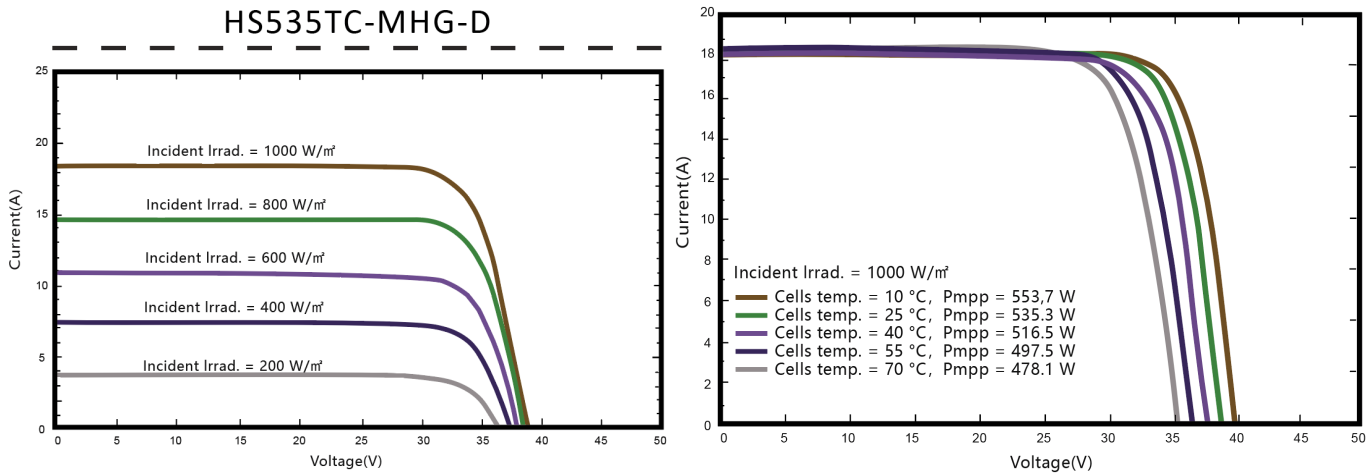
Power	561W	567W	572W	578W	583W	589W
Open Circuit Voltage	36.55V	36.65V	36.75V	36.85V	37.00V	37.45V
Short Circuit Current	19.26V	19.36V	19.49V	19.58V	19.65V	19.71V
Maximum Power Voltage	31.45V	31.60V	31.70V	31.85V	32.05V	32.25V
Maximum Power Current	17.84V	17.93V	18.04V	18.13V	18.19V	18.25V

*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	389W	392W	396W	400W	404W	408W
Open Circuit Voltage	34.54V	34.63V	34.73V	34.82V	34.97V	35.39V
Short Circuit Current	14.02A	14.09A	14.19A	14.25A	14.30A	14.35A
Maximum Power Voltage	29.37V	29.51V	29.61V	29.75V	29.93V	30.12V
Maximum Power Current	13.23A	13.30A	13.38A	13.45A	13.49A	13.53A

IV Characteristics



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

25 YEARS Power Warranty

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