

585~605 Watt

HORAY

TIER1
BloombergNEF

HS **182-144** TC-D Ocean N-type Bifacial Modules



SMBB Half-Cell Technology

More uniform current distribution, reducing heat loss in internal cells.



Higher Output Power

The output power of 144 half-cell monocrystalline modules is up to 605W.



Low Light Features

Higher performance under low light environment.



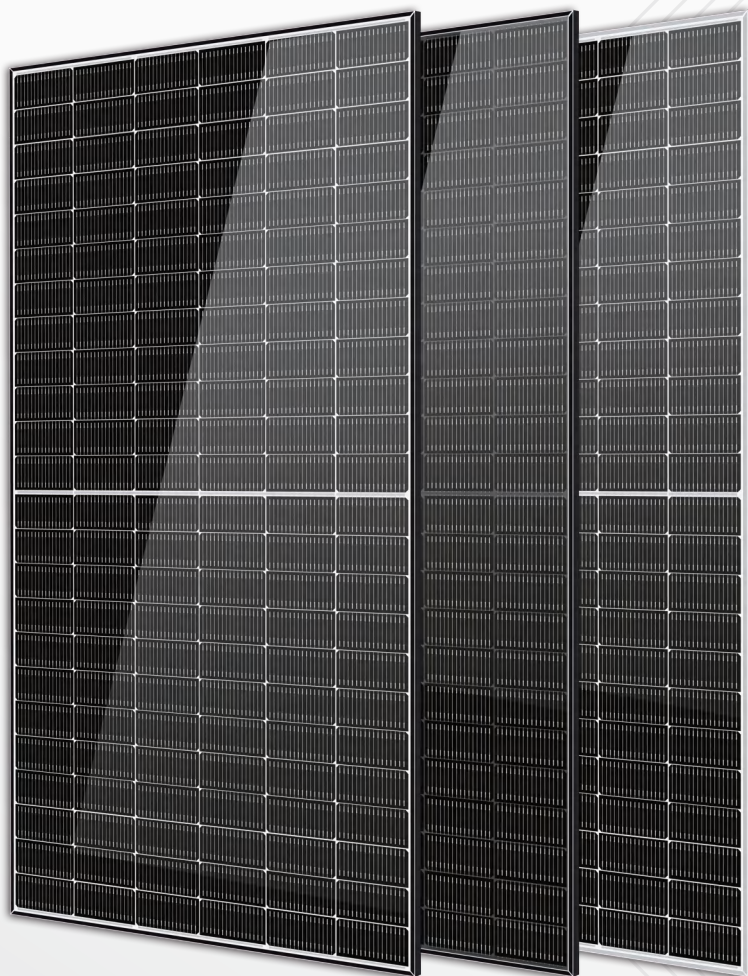
Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion tests by a third party.



Lower Power Attenuation

Anti-PID and negligible LID/LeTID, which reduces power loss.



IEC 61215:2021

IEC 61730:2023

ISO 9001:2015 Quality Management System

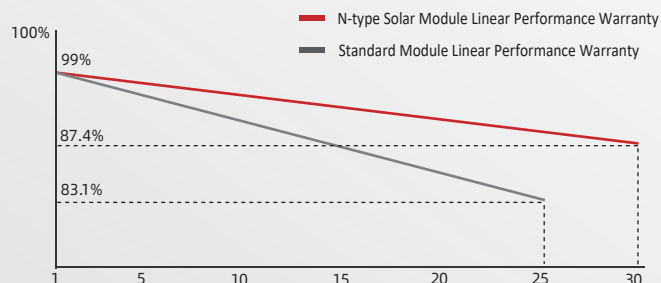
ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Health and Safety Management System

CE Marking: European Conformity

CQC: China Quality Certification Centre

Solar Product Certification



15-year product warranty



30-year linear power output warranty

HEADQUARTER: HORAY SOLAR CO., LTD.

GLOBAL MARKETING AND SERVICE: HORAY SOLAR GMBH

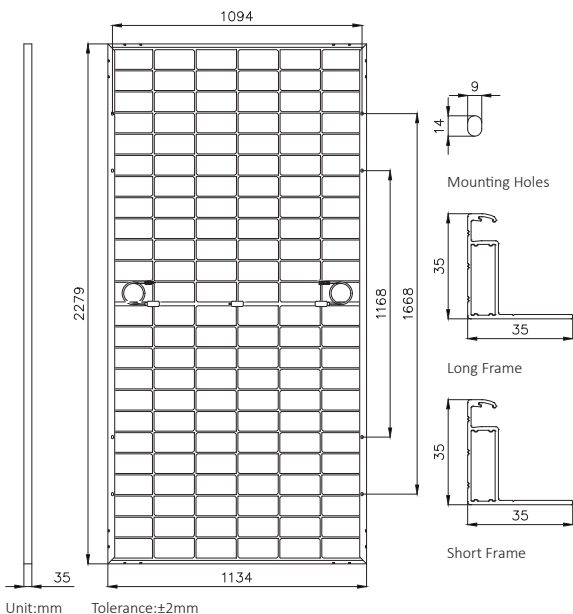
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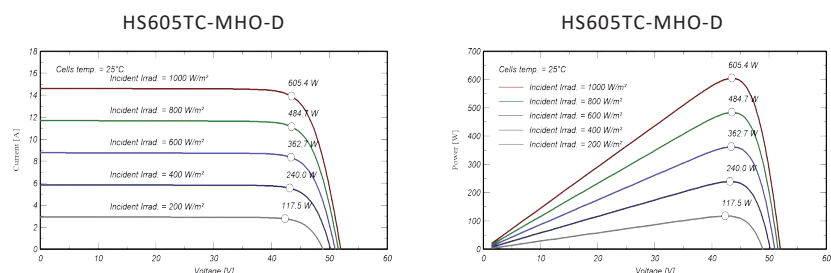
MECHANICAL DIAGRAMS



MECHANICAL PARAMETERS

Weight	31.1kg
Dimension	2279×1134×35mm
Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , ±300mm (length can be customized)
Connector	MC4 compatible
Glass	2.0+2.0mm AR coated heat strengthened glass
Frame	Anodized aluminum alloy frame
Packaging	32pcs per pallet/640pcs per 40'HC

CURVES OF PV MODULE



ELECTRICAL CHARACTERISTICS AT STC

Module Type	HS585TC-MHO-D	HS590TC-MHO-D	HS595TC-MHO-D	HS600TC-MHO-D	HS605TC-MHO-D
Testing Condition	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	585	590	595	600	605
Open Circuit Voltage(Voc/V)	51.52	51.63	51.74	51.85	51.95
Short Circuit Current(Isc/A)	14.30	14.38	14.46	14.54	14.62
Maximum Power Voltage(Vmp/V)	43.33	43.44	43.55	43.66	43.76
Maximum Power Current(Imp/A)	13.51	13.59	13.66	13.74	13.83
Module Efficiency(%)	22.6	22.8	23.0	23.2	23.4

* Standard Test Conditions (STC): Irradiance 1000W/m², AM 1.5, Cell temperature 25°C. Power measurement tolerance: ±3%.

ELECTRICAL CHARACTERISTICS AT BNPI

Module Type	HS585TC-MHO-D	HS590TC-MHO-D	HS595TC-MHO-D	HS600TC-MHO-D	HS605TC-MHO-D
Testing Condition	BNPI	BNPI	BNPI	BNPI	BNPI
Maximum Power(Pmax/W)	638	644	649	654	660
Open Circuit Voltage(Voc/V)	51.60	51.70	51.80	51.90	52.00
Short Circuit Current(Isc/A)	15.64	15.73	15.82	15.91	16.00
Maximum Power Voltage(Vmp/V)	43.33	43.44	43.55	43.66	43.76
Maximum Power Current(Imp/A)	14.72	14.83	14.90	14.98	15.08

* Bifacial Nameplate Irradiance(BNPI): Irradiance front 1000W/m², rear 135W/m². Power measurement tolerance: ±3%.

OPERATING PARAMETERS

Operating Temperature Range	-40°C~+85°C
Power Output Tolerance	0~3%
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Module Operating Temperature [T98]max	45±2°C ≤70°C
Protection Class	Class II
Bifaciality coefficient of Pmax	80±5%
Fire Rating	IEC Class A

MECHANICAL LOADING

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

TEMPERATURE RATINGS (STC)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Pmax	-0.28%/°C



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