430~450 Watt

HORAY | TIER1 BloombergNEF

HS 182-108 TC Ocean *N-type Mono-facial Modules*

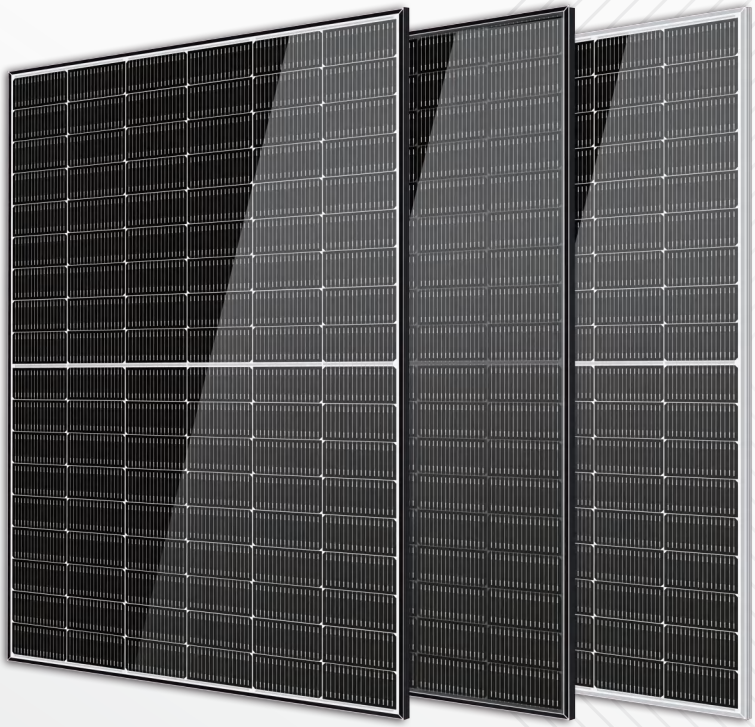
SMBB Half-Cell Technology
More uniform current distribution, reducing heat loss in internal cells.

Higher Output Power
The output power of 108 half-cell monocrystalline modules is up to 450W.

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

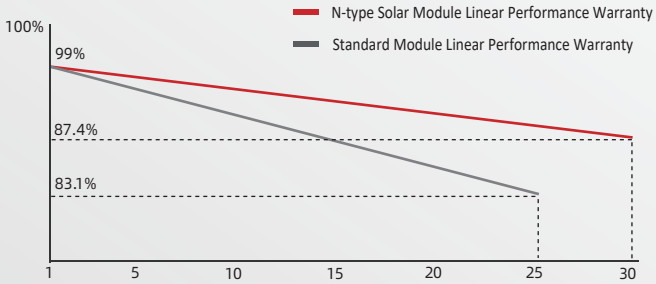
ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Health and Safety Management System

CE Marking: European Conformity

CQC: China Quality Certification Centre

Solar Product Certification



12 12-year product warranty

30 30-year linear power output warranty

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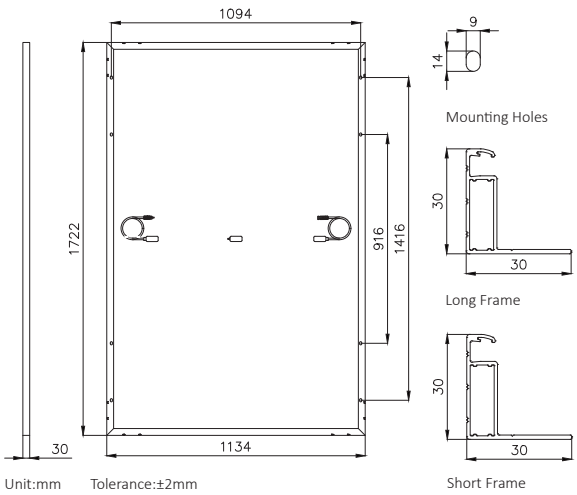
HS 182-108 TC

MECHANICAL DIAGRAMS



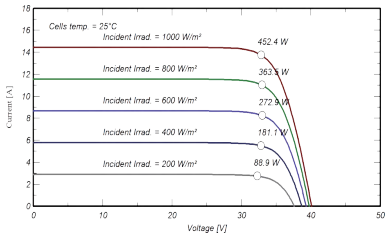
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

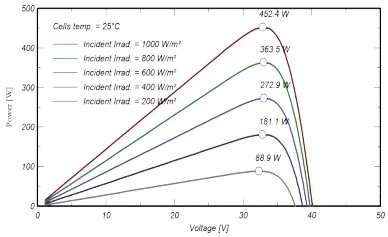
Weight	20.5kg
Dimension	1722×1134×30mm
Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm², ±1100mm (length can be customized)
Connector	MC4 compatible
Glass	3.2mm AR coated tempered glass
Frame	Anodized aluminum alloy frame
Packaging	37pcs per pallet/962pcs per 40'HC

MECHANICAL PARAMETERS

HS450TC-MHO



HS450TC-MHO



ELECTRICAL CHARACTERISTICS AT STC

Module Type	HS430TC-MHO	HS435TC-MHO	HS440TC-MHO	HS445C-MHO	HS450TC-MHO
Testing Condition	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	430	435	440	445	450
Open Circuit Voltage(Voc/V)	39.30	39.50	39.70	39.90	40.10
Short Circuit Current(Isc/A)	14.15	14.22	14.30	14.37	14.45
Maximum Power Voltage(Vmp/V)	32.84	33.04	33.24	33.44	33.64
Maximum Power Current(Imp/A)	13.10	13.17	13.24	13.31	13.38
Module Efficiency(%)	22.0	22.3	22.5	22.8	23.0

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

ELECTRICAL CHARACTERISTICS AT NMOT

Module Type	HS430TC-MHO	HS435TC-MHO	HS440C-MHO	HS445TC-MHO	HS450TC-MHO
Testing Condition	NMOT	NMOT	NMOT	NMOT	NMOT
Maximum Power(Pmax/W)	328	332	336	340	344
Open Circuit Voltage(Voc/V)	37.10	37.30	37.50	37.70	37.90
Short Circuit Current(Isc/A)	11.43	11.49	11.55	11.61	11.67
Maximum Power Voltage(Vmp/V)	30.50	30.70	30.90	31.10	31.30
Maximum Power Current(Imp/A)	10.74	10.80	10.86	10.93	10.99

* Nominal Module Operating Temperature (NMOT): Irradiance 800W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s. 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	45±2°C
[T98]max	≤70°C
Protection Class	Class II
Fire Rating	IEC Class C

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

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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Specifications included in this datasheet are subject to change without notice.
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