530~550 Watt

HORAY | TIER1 BloombergNEF

HS 182-132 TC Ocean *N-type Mono-facial Modules*

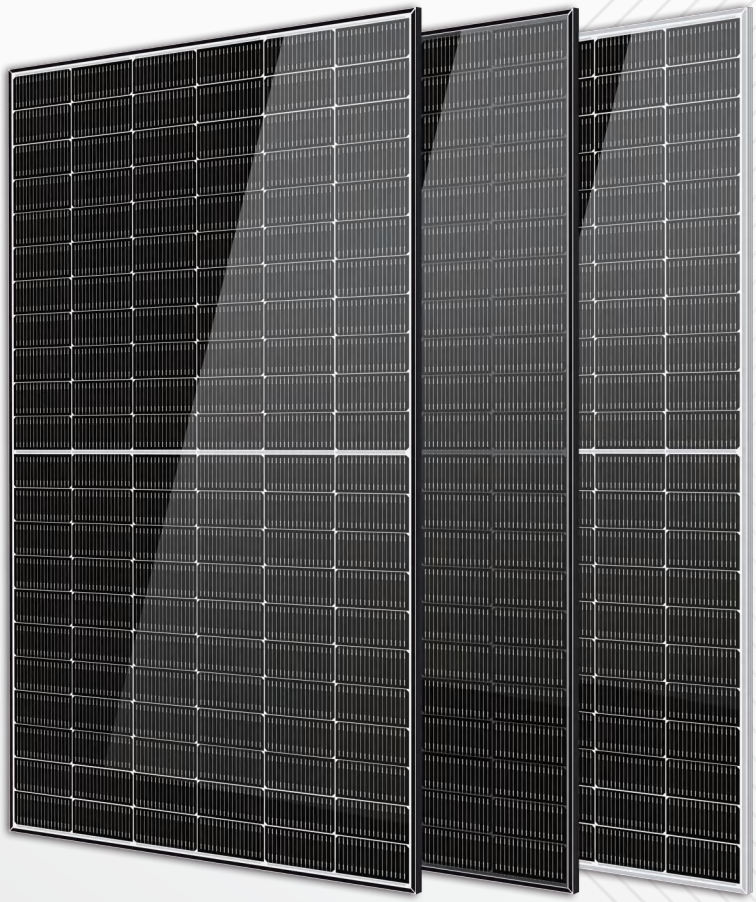
SMBB Half-Cell Technology
More uniform current distribution, reducing heat loss in internal cells.

Higher Output Power
The output power of 132 half-cell monocrystalline modules is up to 550W.

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

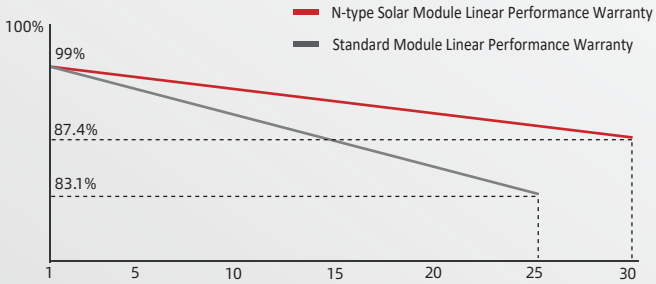
ISO 14001:2015 Environmental Management System

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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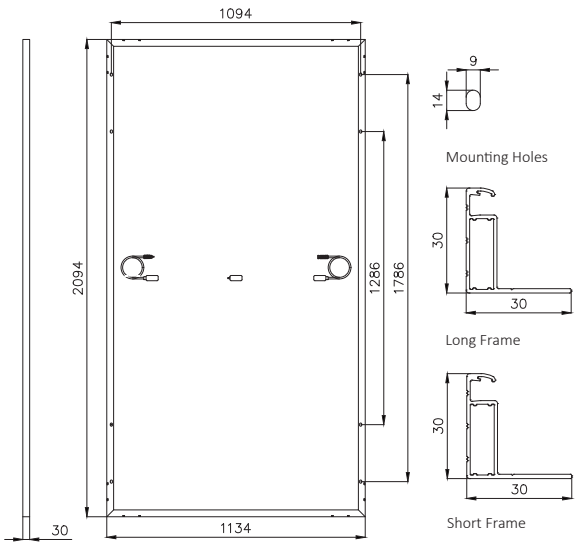
HS 182-132 TC

MECHANICAL DIAGRAMS



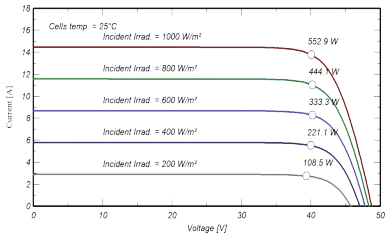
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

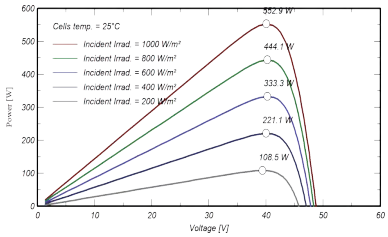
Weight	24.5kg
Dimension	2094×1134×30mm
Cell Orientation	132 (6×22)
Junction Box	IP68, three diodes
Output Cable	4mm², ±300mm (length can be customized)
Connector	MC4 compatible
Glass	3.2mm AR coated tempered glass
Frame	Anodized aluminum alloy frame
Packaging	37pcs per pallet/814pcs per 40'HC

MECHANICAL PARAMETERS

HS550TC-MHO



HS550TC-MHO



ELECTRICAL CHARACTERISTICS AT STC

Module Type	HS530TC-MHO	HS535TC-MHO	HS540TC-MHO	HS545TC-MHO	HS550C-MHO
Testing Condition	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	530	535	540	545	550
Open Circuit Voltage(Voc/V)	47.81	48.04	48.27	48.52	48.76
Short Circuit Current(Isc/A)	14.22	14.29	14.35	14.41	14.47
Maximum Power Voltage(Vmp/V)	40.24	40.44	40.64	40.84	41.04
Maximum Power Current(Imp/A)	13.17	13.23	13.29	13.34	13.40
Module Efficiency(%)	22.3	22.5	22.7	23.0	23.2

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

ELECTRICAL CHARACTERISTICS AT NMOT

Module Type	HS530TC-MHO	HS535TC-MHO	HS540TC-MHO	HS545TC-MHO	HS550TC-MHO
Testing Condition	NMOT	NMOT	NMOT	NMOT	NMOT
Maximum Power(Pmax/W)	401	408	412	416	420
Open Circuit Voltage(Voc/V)	45.20	45.50	45.80	46.00	46.30
Short Circuit Current(Isc/A)	11.49	11.54	11.59	11.64	11.69
Maximum Power Voltage(Vmp/V)	37.30	37.60	37.70	37.90	38.10
Maximum Power Current(Imp/A)	10.81	10.86	10.92	10.98	11.02

* 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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