585~605 Watt

HORAY | TIER1 BloombergNEF

HS 182-144 TC Ocean *N-type Mono-facial Modules*

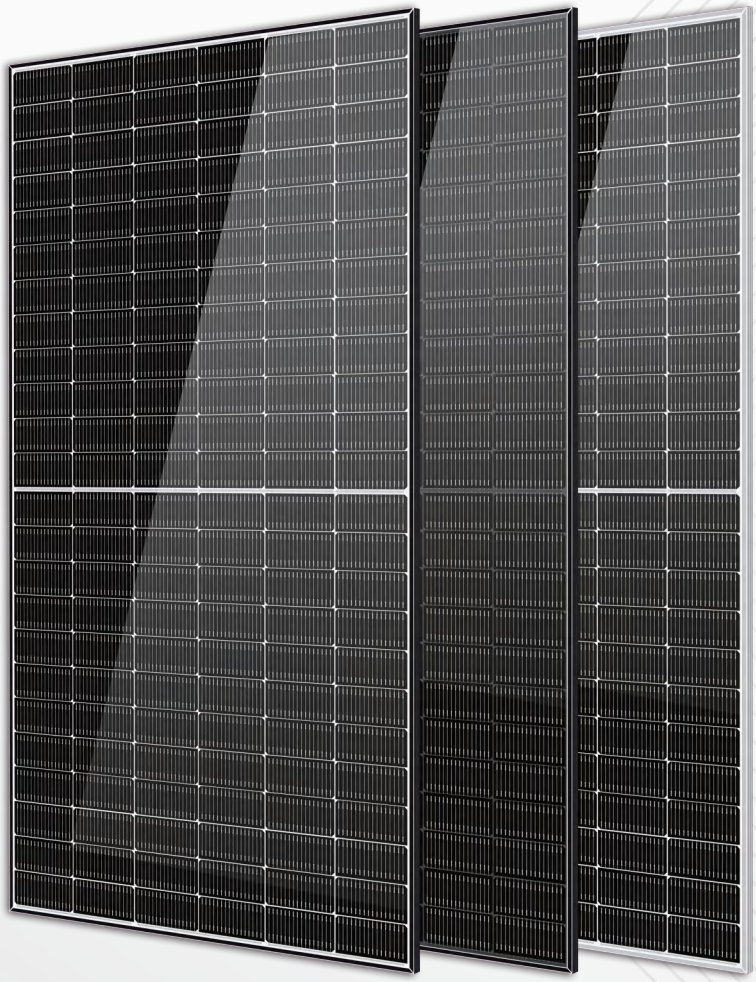
SMBB Half-Cell Technology
More uniform current distribution, reducing heat loss in internal cells.

Higher Output Power
The output power of 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

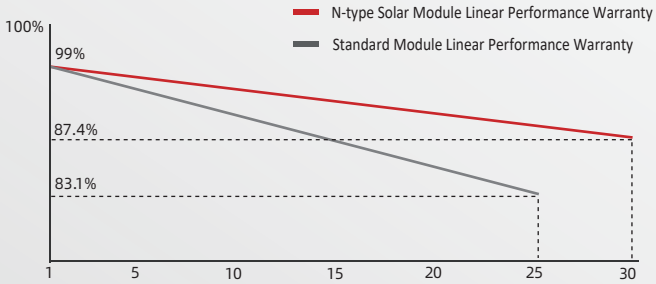
ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Health and Safety Management System

CE Marking: European Conformity

CQC: China Quality Certification Centre

Solar Product Certification



12 12-year product warranty

30 30-year linear power output warranty

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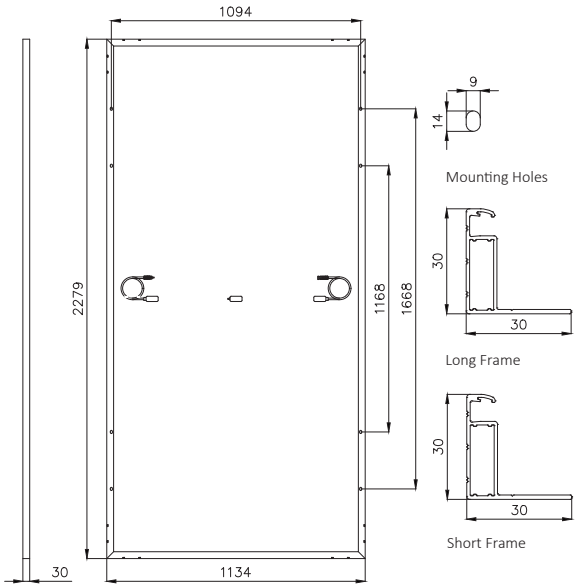
HS 182-144 TC

MECHANICAL DIAGRAMS



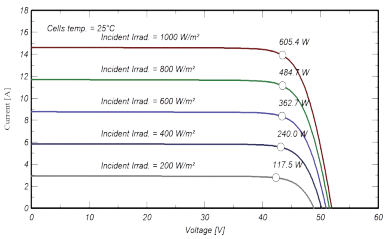
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

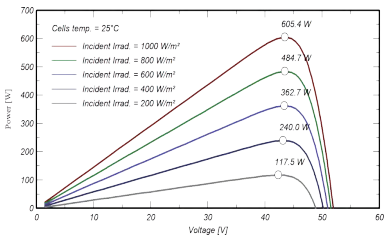
Weight	26.0kg
Dimension	2279×1134×30mm
Cell Orientation	144 (6×24)
Junction Box	IP68, three diodes
Output Cable	4mm², ±300mm (length can be customized)
Connector	MC4 compatible
Glass	3.2mm AR coated tempered glass
Frame	Anodized aluminum alloy frame
Packaging	37pcs per pallet/740pcs per 40'HC

MECHANICAL PARAMETERS

HS605TC-MHO



HS605TC-MHO



ELECTRICAL CHARACTERISTICS AT STC

Module Type	HS585TC-MHO	HS590TC-MHO	HS595TC-MHO	HS600TC-MHO	HS605TC-MHO
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 NMOT

Module Type	HS585TC-MHO	HS590TC-MHO	HS595TC-MHO	HS600TC-MHO	HS605TC-MHO
Testing Condition	NMOT	NMOT	NMOT	NMOT	NMOT
Maximum Power(Pmax/W)	444	448	451	455	459
Open Circuit Voltage(Voc/V)	48.70	48.90	49.00	49.10	49.20
Short Circuit Current(Isc/A)	11.55	11.62	11.68	11.74	11.81
Maximum Power Voltage(Vmp/V)	40.50	40.70	40.80	40.90	41.00
Maximum Power Current(Imp/A)	10.94	11.00	11.05	11.12	11.20

* 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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