# 585~605 Watt

HORAY | TIER1 BloombergNEF

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

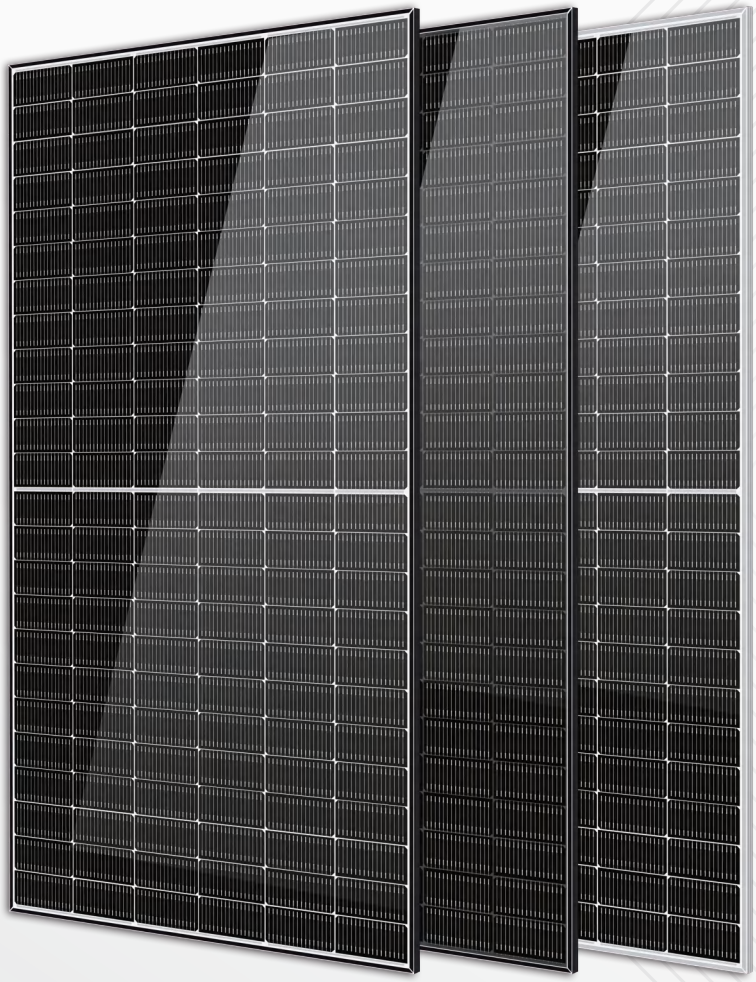
### *SMBB Half-Cell Technology*
More uniform current distribution, reducing heat loss in internal cells.

### *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

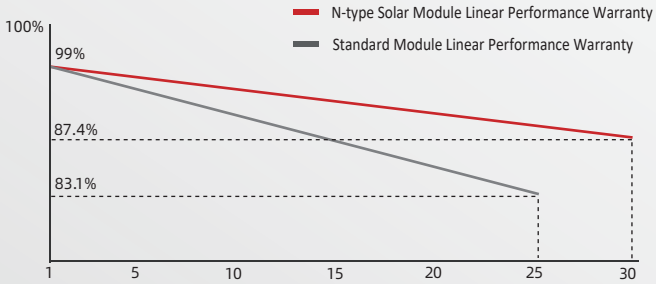
ISO 14001:2015 Environmental Management System

ISO 45001:2018 Occupational Health and Safety Management System

CE Marking: European Conformity

CQC: China Quality Certification Centre

Solar Product Certification




15 15-year product warranty

30 30-year linear power output warranty

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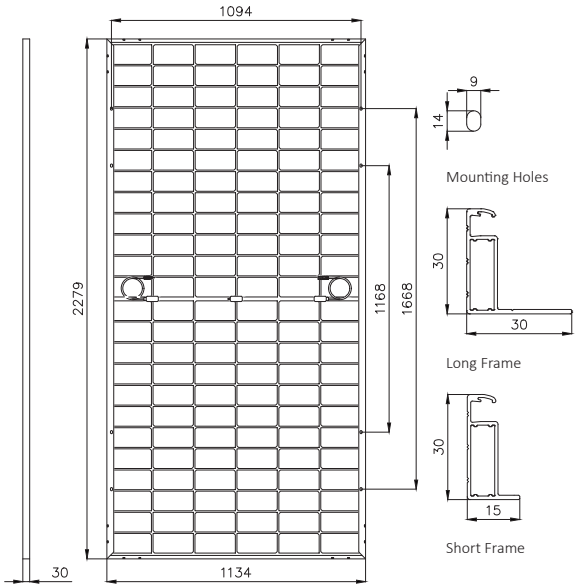
# HS 182-144 TC-D

## MECHANICAL DIAGRAMS



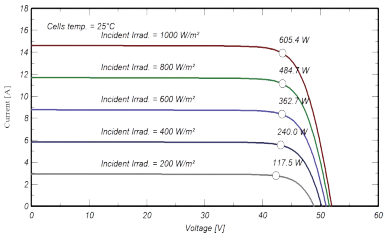

Unit:mm Tolerance:±2mm

## MECHANICAL PARAMETERS

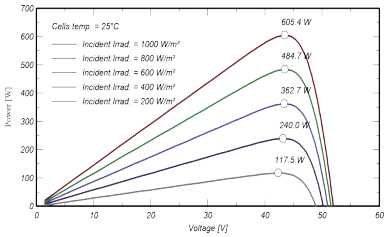
| | |
|---|---|
| Weight | 31.1kg |
| Dimension | 2279×1134×30mm |
| Cell Orientation | 144 (6×24) |
| Junction Box | IP68, three diodes |
| Output Cable | 4mm², ±300mm (length can be customized) |
| Connector | MC4 compatible |
| Glass | 2.0+2.0mm AR coated heat strengthened glass |
| Frame | Anodized aluminum alloy frame |
| Packaging | 37pcs per pallet/740pcs per 40'HC |

## CURVES OF PV MODULE

HS605TC-MHO-D




HS605TC-MHO-D




## 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 | 45±2°C |
| [T98]max | ≤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 |

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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