580~600 Watt

HORAY | TIER1 BloombergNEF

HS 182-144 HJ-D *Ocean* HJT Bifacial Modules

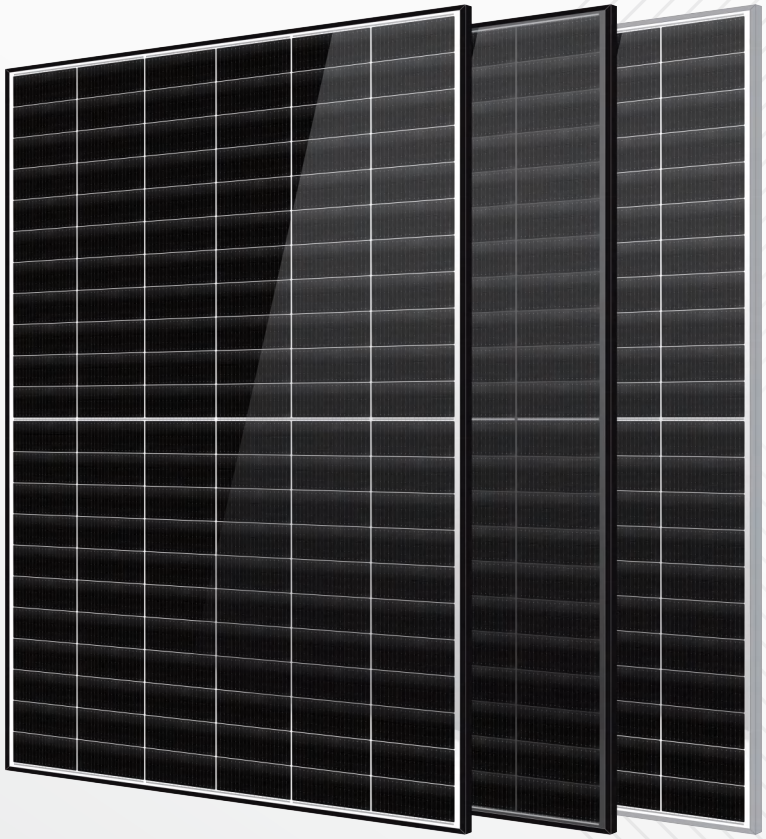
HJT Technology
Hydrogenated amorphous silicon thin films and µc-Si technology to ensure higher cell efficiency.

Higher Output Power
The output power is as high as 600W, and bifaciality is up to 85% , provide more power from rear side.

Better Weather Adaptability
Excellent low light performance, lower temperature coefficients and power loss under high temperature.

Lower Power Attenuation
Anti PID and negligible LID/LeTID attenuation, witch can reduce power loss.

Ideal Choice For Utility Project
Lower BOS cost, lower LCOE, and improved ROI.



IEC61215:2021

IEC61730:2023

ISO9001:2015 Quality Management System

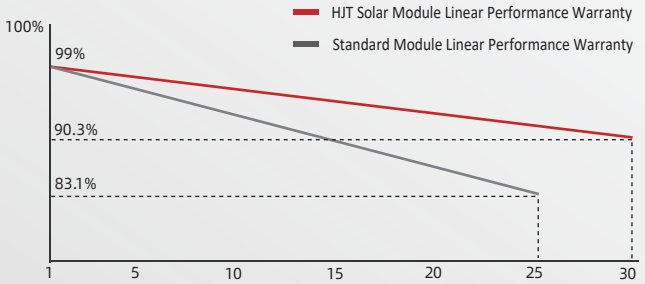
ISO14001:2015 Environmental Management System

ISO45001:2018 Occupational Health and Safety Management System

CE: Europe Standard

China Quality Certification Centre

Solar Product Certification



15 15-year product warranty

30 30-year linear power output warranty

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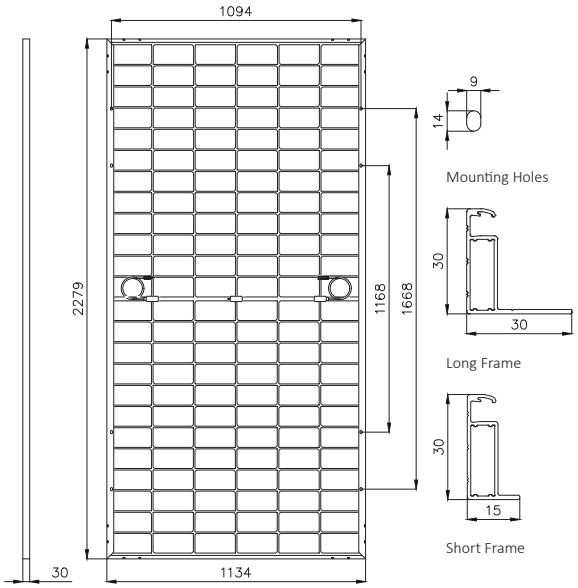
HS 182-144 HJ-D

MECHANICAL DIAGRAMS



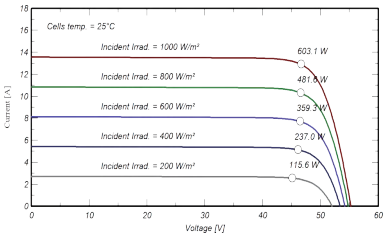
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

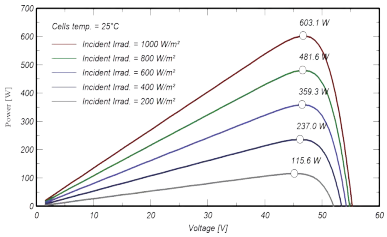
Weight	32.5kg
Dimension	2279×1134×30mm
Cell Orientation	144(6×24)
Junction Box	IP68, three diodes
Output Cable	4mm²,±300mm (length can be customized)
Connector	MC4 compatible
Glass	2.0+2.0mm AR coated heat strengthened glass
Frame	Anodized aluminum alloy frame
Packaging	37pcs per pallet/740pcs per 40'HC

CURVES OF PV MODULE

HS600HJ-MHO-D



HS600HJ-MHO-D



ELECTRICAL CHARACTERISTICS

Module Type	HS580HJ-MHO-D		HS585HJ-MHO-D		HS590HJ-MHO-D		HS595HJ-MHO-D		HS600HJ-MHO-D	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power(Pmax/W)	580	443	585	447	590	450	595	454	600	458
Open Circuit Voltage(Voc/V)	53.95	51.50	54.14	51.68	54.33	51.86	54.52	52.04	54.71	52.22
Short Circuit Current(Isc/A)	13.36	10.68	13.41	10.72	13.46	10.76	13.51	10.80	13.56	10.84
Maximum Power Voltage(Vmp/V)	45.02	42.98	45.23	43.18	45.44	43.38	45.65	43.58	45.86	43.78
Maximum Power Current(Imp/A)	12.90	10.30	12.95	10.34	13.00	10.38	13.05	10.42	13.10	10.46
Module Efficiency(%)	22.4		22.6		22.8		23.0		23.2	

* Under Standard Test Conditions (STC), irradiance 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

* Under Nominal Module Operating Temperature (NMOT), irradiance 800 W/m², spectrum AM 1.5, ambient temperature 20°C and wind speed 1 m/s.

ELECTRICAL CHARACTERISTICS AT BNPI

Maximum Power(Pmax/W)	664	669	674	679	684
Open Circuit Voltage(Voc/V)	55.75	55.95	56.13	56.32	56.51
Short Circuit Current(Isc/A)	14.76	14.80	14.84	14.88	14.92
Maximum Power Voltage(Vmp/V)	46.62	46.83	47.04	47.25	47.46
Maximum Power Current(Imp/A)	14.25	14.29	14.33	14.37	14.41

* Under Bifacial Nameplate Irradiance (BNPI), front Side irradiation 1000 W/m², rear side reflection irradiation 135 W/m², spectrum AM 1.5 and cell temperature of 25°C. Rear side power gain depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

OPERATING PARAMETERS

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3%
Maximum System Voltage	1500V
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	44±2°C
Protection Class	Class II
Bifaciality	85±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	-0.22%/°C
Temperature Coefficient of Pmax	-0.24%/°C

*The actual test value may be slightly deviated from the technical parameters due to the difference in test methods.

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

Specifications included in this datasheet are subject to change without notice.
Version number: HS182-HJ-D-2025-A0

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