640~670 Watt

HORAY | TIER1 BloombergNEF

HS8-66BNSW-D Nova BC Bifacial Modules

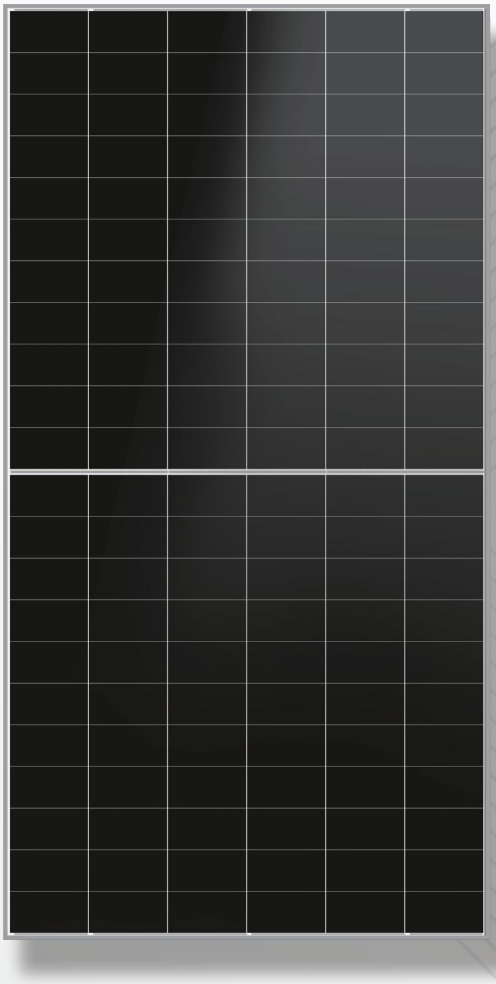
BC Technology
Relocate all electrical contacts to the rear side, eliminating front-side shading to maximize light absorption and power generation.

Anti-Shading Technology
With anti-shading technology, complex environments are no obstacle to generating more power.

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

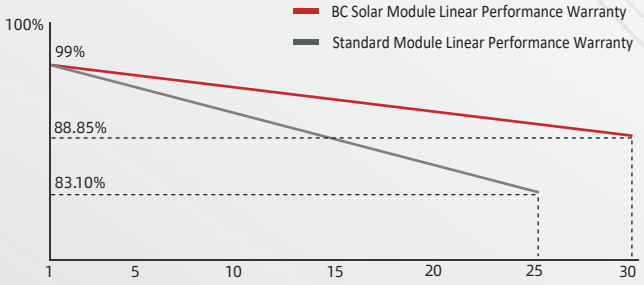
IEC61730:2023

ISO9001:2015 Quality Management System

ISO14001:2015 Environmental Management System

ISO45001:2018 Occupational Health and Safety Management System

CE: Europe Standard



15 15-year product warranty

30 30-year linear power output warranty

HEADQUARTER: HORAY SOLAR CO., LTD.
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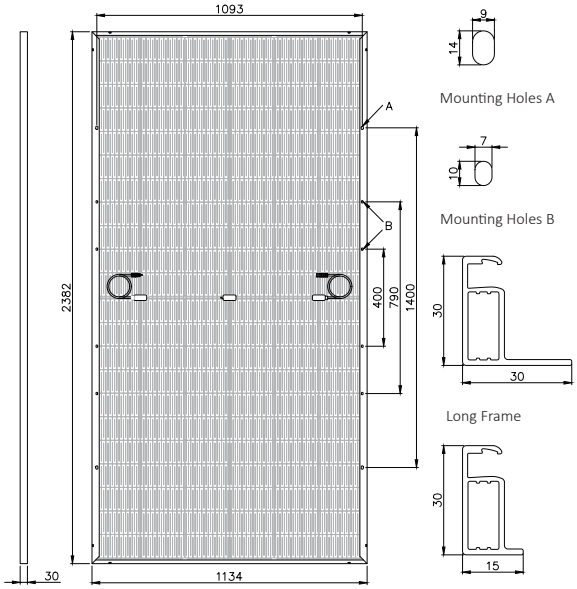
HS8-66BNSW-D

MECHANICAL DIAGRAMS



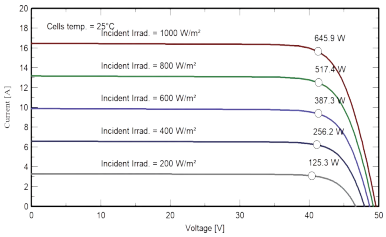
Unit:mm Tolerance:±2mm

MECHANICAL PARAMETERS

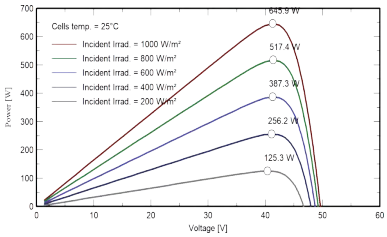
Weight	32.5kg
Dimension	2382×1134×30mm
Cell Orientation	132(6×22)
Junction Box	IP68, three diodes
Output Cable	4mm²,+400,-200mm/±1400mm (length can be customized)
Connector	MC4 compatible
Glass	2.0+2.0mm AR coated heat strengthened glass
Frame	Anodized aluminum alloy frame
Packaging	36pcs per pallet/720pcs per 40'HC

CURVES OF PV MODULE

HS8-66BNSW-645-D



HS8-66BNSW-645-D



ELECTRICAL CHARACTERISTICS

Module Type	HS8-66BNSW-640-D	HS8-66BNSW-645-D	HS8-66BNSW-650-D	HS8-66BNSW-655-D	HS8-66BNSW-660-D	HS8-66BNSW-665-D	HS8-66BNSW-670-D
Testing Condition	STC	STC	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	640	645	650	655	660	665	670
Open Circuit Voltage(Voc/V)	49.52	49.62	49.72	49.82	49.93	50.03	50.13
Short Circuit Current(Isc/A)	16.36	16.46	16.54	16.62	16.71	16.79	16.87
Maximum Power Voltage(Vmp/V)	40.80	40.88	40.98	41.08	41.19	41.29	41.39
Maximum Power Current(Imp/A)	15.69	15.78	15.86	15.94	16.02	16.10	16.18
Module Efficiency(%)	23.7	23.9	24.1	24.2	24.4	24.6	24.8

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (BASED ON 645W)

Pmax/W	Voc/V	Isc/A	Vmp/V	Imp/A	Pmax gain
677	49.64	17.27	40.90	16.55	5%
710	49.66	18.11	40.92	17.35	10%
744	49.68	18.96	40.94	18.17	15%
776	49.70	19.76	40.96	18.95	20%
808	49.72	20.57	40.98	19.72	25%

*Rear side power gain:The additional gain from the rear side compared to the power of the front side at the standard test condition.It 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	35A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class Ⅱ
Bifaciality	75±5%
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	+0.05%/°C
Temperature Coefficient of Voc	-0.20%/°C
Temperature Coefficient of Pmax	-0.26%/°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: HS8-66BNSW-D-2026-A0

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