RUNERGY

HY-DH108N8B

430-450W

23.0%	N-Type	108 Pieces
Max. Efficiency	Bifacial & Dual Glass	Half-Cell

Leading Technology

Based on n-type cell and 182 technology platform; Advanced design and manufacturing process; Industry leading reliability and efficiency of mass production

High Power

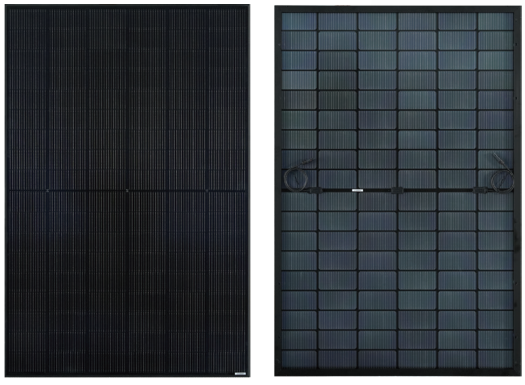
Bifacial higher power output, lower temperature coefficient and better low light performance; Significantly enhanced power output and lower LCOE

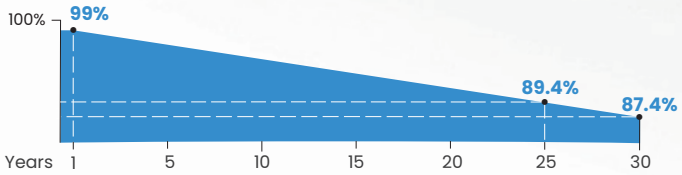
Long-term Reliability

Unsusceptible to LID, LeTID and lower PID degradation; 5400Pa snow load, 2400Pa wind load, and 35mm hail-resistant with 27.2m/s strike

Stringent Quality Control

Durable product structure; Stringent quality control system; Guaranteed after-sales service to ensure long-term reliability





Runergy N-Type Dual Glass Product Performance Warranty

- 1st year degradation **< 1%**, annual degradation **< 0.4%**

12 12-year product warranty

30 30-year linear power warranty

IEC61215 / IEC61730 / UL61730 / IEC61701 / IEC62716 / IEC60068 / ISO9001 / ISO14001 / ISO45001

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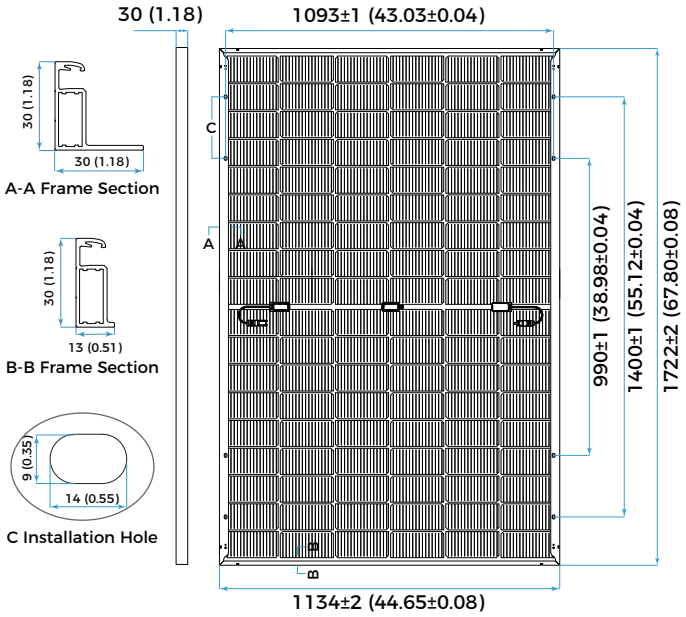
HY-DH108N8B 430-450

Mechanical Parameters

Solar Cell	Mono N-Type 182mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30mm (67.80 x 44.65 x 1.18in)
Weight	24.2kg (53.35lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (IEC), 12 AWG (UL) ±1200mm (47.24in.) or customized
Connector	EVO2 or similar
Front Cover	2.0mm AR coated heat-strengthened glass
Back Cover	2.0mm heat-strengthened glass
Frame	Black/ Silver anodized aluminum
Container	36 pcs/Pallet, 936 pcs/40' HQ (Global) ,756 pcs/40' HQ (US)

Unit: mm (inch)



Operating Parameters

Max. System Voltage	DC 1500V（IEC/UL
Operating Temperature	-40˚C ~ +85˚C (-40°F ~ +185°F)
Max. Fuse Rating	30A
Front/Back Max. Loading	5400Pa (112lb/ft²)/2400Pa (50lb/ft²)
Bifaciality	80%±5%
Hail Test	35mm, 27.2 m/s.
Fire Resistance	IEC Class A/ UL Type 29

Electrical Characteristics - STC

Irradiance 1000 W/m², cell temperature 25 ˚C, AM-1.5, Test uncertainty for Pmax: ±3%

Maximum Power at STC (Pmax/W)	450	445	440	435	430
Power Tolerance (W)			0 ~ +5		
Optimum Operating Voltage (Vmp/V)	33.22	33.39	33.21	33.03	32.85
Optimum Operating Current (Imp/A)	13.55	13.33	13.25	13.17	13.09
Open Circuit Voltage (Voc/V)	39.79	39.35	39.16	38.97	38.78
Short Circuit Current (Isc/A)	14.00	13.96	13.88	13.80	13.72
Module Efficiency	23.0%	22.8%	22.5%	22.3%	22.0%

Electrical Characteristics - BNPI

Irradiance: front 1000W/m², rear 135W/m², Cell temperature 25 ˚C, AM-1.5.

Maximum Power at BNPI (Pmax/W)	495	490	484	479	473
Optimum Operating Voltage (Vmp/V)	33.22	33.39	33.21	33.03	32.85
Optimum Operating Current (Imp/A)	14.91	14.67	14.58	14.49	14.41
Open Circuit Voltage (Voc/V)	39.89	39.45	39.26	39.07	38.88
Short Circuit Current (Isc/A)	15.43	15.39	15.30	15.21	15.12

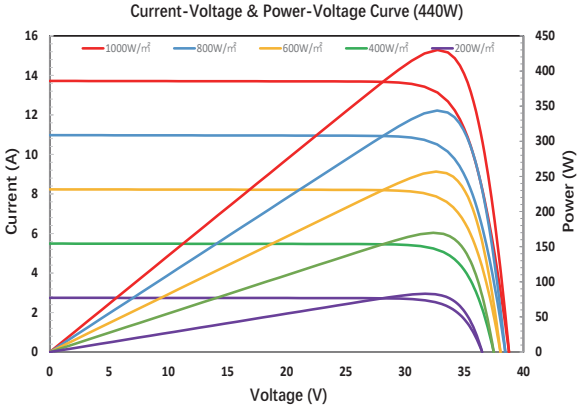
Rearside Power Gain

(Reference to 440W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	462	506	550
Optimum Operating Voltage (Vmp/V)	33.21	33.31	33.31
Optimum Operating Current (Imp/A)	13.91	15.19	16.51
Open Circuit Voltage (Voc/V)	39.16	39.26	39.26
Short Circuit Current (Isc/A)	14.57	15.92	17.30
Module Efficiency	23.7%	25.9%	28.1%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 ˚C
Nominal Cell Operating Temperature	45 ± 2 ˚C
Temperature Coefficient of Pmax	-0.29%/˚C
Temperature Coefficient of Voc	-0.25%/˚C
Temperature Coefficient of Isc	0.045%/ ˚C



HY-DH108N8B-Bifacial-Global-Ver25Q4

Specifications included in this datasheet are subject to change without notice.