

HY-DH108N8B

Monofacial

425-445W

22.8%

Max. Efficiency

N-Type

Monofacial & Dual Glass

108 Pieces

Half-Cell



Leading Technology

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



High Power

Lower temperature coefficient, better low light performance; Unsusceptible to LID, LeTID and lower PID degradation; Significantly enhanced power output and lower LCOE



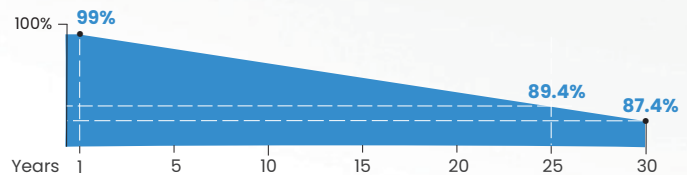
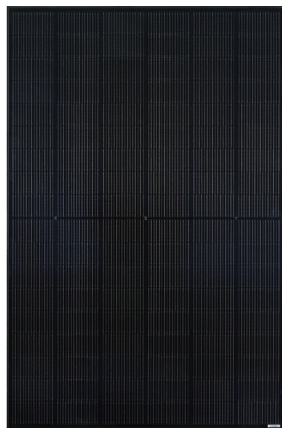
Aesthetic Appearance

All black front cover, aesthetic match with home rooftops; Dual glass and white back encapsulant film with porcelain enamel texture; easy for installation



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%**



25-year product warranty



30-year linear power warranty

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



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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)

Operating Parameters	
Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40℃ ~ +85℃ (-40°F ~ +185°F)
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa (112lb/ft²)
Backside Max. Loading	2400Pa (50lb/ft²)
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)	445	440	435	430	425
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	33.39	33.21	33.03	32.85	32.67
Optimum Operating Current (Imp/A)	13.33	13.25	13.17	13.09	13.01
Open Circuit Voltage (Voc/V)	39.35	39.16	38.97	38.78	38.59
Short Circuit Current (Isc/A)	13.96	13.88	13.80	13.72	13.64
Module Efficiency	22.8%	22.5%	22.3%	22.0%	21.8%

Electrical Characteristics - NMOT	Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.				
Maximum Power at NMOT (Pmax/W)	341	337.0	333.2	329.3	325.5
Optimum Operating Voltage (Vmp/V)	31.97	31.80	31.63	31.45	31.28
Optimum Operating Current (Imp/A)	10.66	10.60	10.53	10.47	10.41
Open Circuit Voltage (Voc/V)	37.68	37.50	37.31	37.13	36.95
Short Circuit Current (Isc/A)	11.25	11.19	11.12	11.06	11.00

Warranty	
Product Workmanship Warranty	25 Years
Linear Power Output Warranty	30 Years
First Year Degradation	1%
Annual Power Degradation	0.4%

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

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

Unit: mm (inch)

