

RUNERGY

HY-DH108N11 **Turbo**

500-530W

23.8%

Max. Efficiency

N-Type

Bifacial & Dual Glass

108 Pieces

Half-Cell



Leading Technology

Based on n-type cell and 210R 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



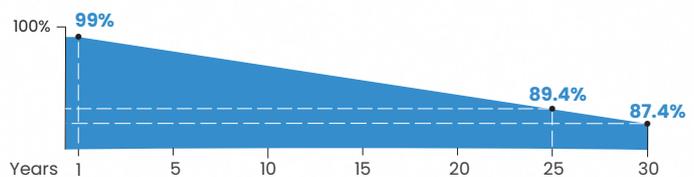
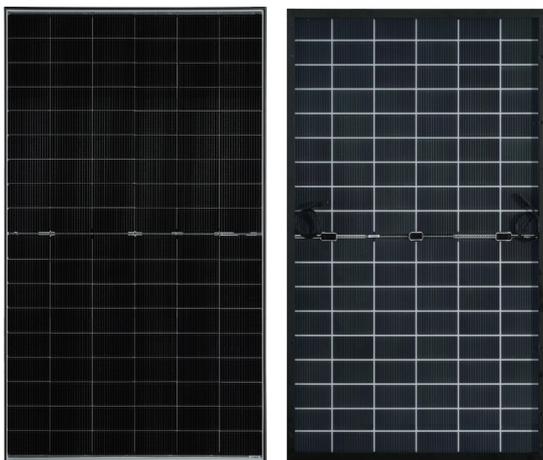
Long-term Reliability

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-year product warranty



30-year linear power warranty

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



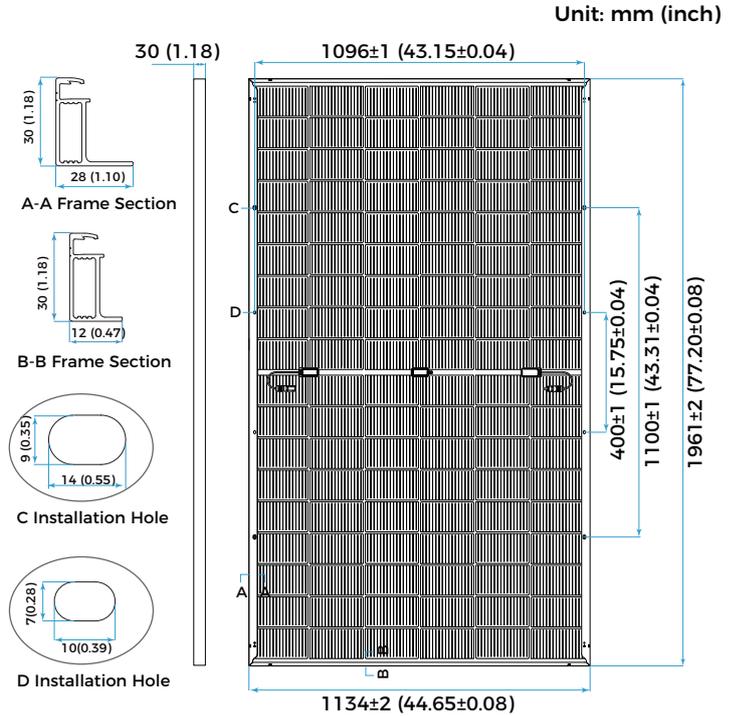
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Mechanical Parameters

Solar Cell	Mono N-Type 182*210 mm
No. of Cells	108 (6 × 18)
Dimensions	1961 × 1134 × 30mm (77.20x 44.65 x 1.18in)
Weight	27.5kg (60.6lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm ² (IEC), 12 AWG (UL) ±1200mm (47.24in.) or customized
Connector	MC4-EVO2 or similar
Front Cover	2.0mm AR coated heat-strengthened glass
Back Cover	2.0mm heat-strengthened glass
Frame	Black-anodized aluminum
Container	36 pcs/pallet, 864 pcs/40' HQ (Global), 684 pcs/40'HQ (US)

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40°C ~ +85°C (-40°F ~ +185°F)
Max. Fuse Rating	35A
Front/Back Max. Loading	5400Pa (112lb/ft ²)/2400Pa (50lb/ft ²)
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%

	530	525	520	515	510	505	500
Maximum Power at STC (Pmax/W)	530	525	520	515	510	505	500
Power Tolerance (W)	0 ~ +5						
Optimum Operating Voltage (Vmp/V)	34.46	34.27	34.08	33.89	33.69	33.49	33.29
Optimum Operating Current (Imp/A)	15.38	15.32	15.26	15.20	15.14	15.08	15.02
Open Circuit Voltage (Voc/V)	41.79	41.49	41.19	40.89	40.59	40.29	40.09
Short Circuit Current (Isc/A)	16.13	16.08	16.03	15.98	15.93	15.88	15.85
Module Efficiency	23.8%	23.6%	23.4%	23.2%	22.9%	22.7%	22.5%

Electrical Characteristics - BNPI

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

	584	578	572	567	561	556	550
Maximum Power at BNPI (Pmax/W)	584	578	572	567	561	556	550
Optimum Operating Voltage (Vmp/V)	34.46	34.27	34.08	33.89	33.69	33.49	33.29
Optimum Operating Current (Imp/A)	16.93	16.86	16.80	16.73	16.66	16.60	16.53
Open Circuit Voltage (Voc/V)	41.89	41.59	41.29	40.99	40.69	40.39	40.19
Short Circuit Current (Isc/A)	17.79	17.73	17.68	17.62	17.56	17.51	17.47

Rearside Power Gain

(Reference to 520W Front)

	5%	15%	25%
Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	546	598	650
Optimum Operating Voltage (Vmp/V)	34.14	34.18	34.21
Optimum Operating Current (Imp/A)	15.99	17.50	19.00
Open Circuit Voltage (Voc/V)	41.25	41.29	41.32
Short Circuit Current (Isc/A)	16.81	18.39	19.97
Module Efficiency	24.6%	26.9%	29.3%

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

