

# RUNERGY

## HY-DH108N11

# 490-515W

**23.2%**

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



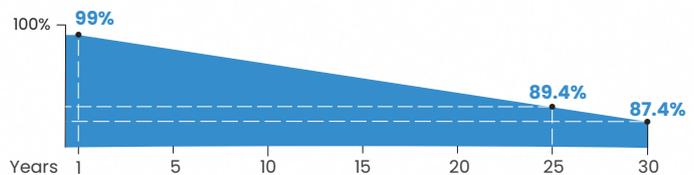
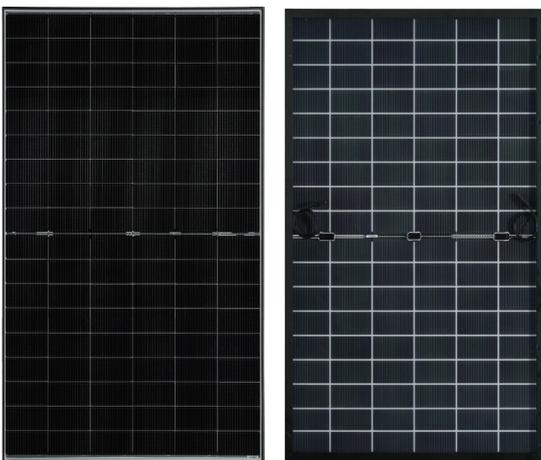
### Long-term Reliability

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



www.runergy.com  
sales-inform@runergy.com

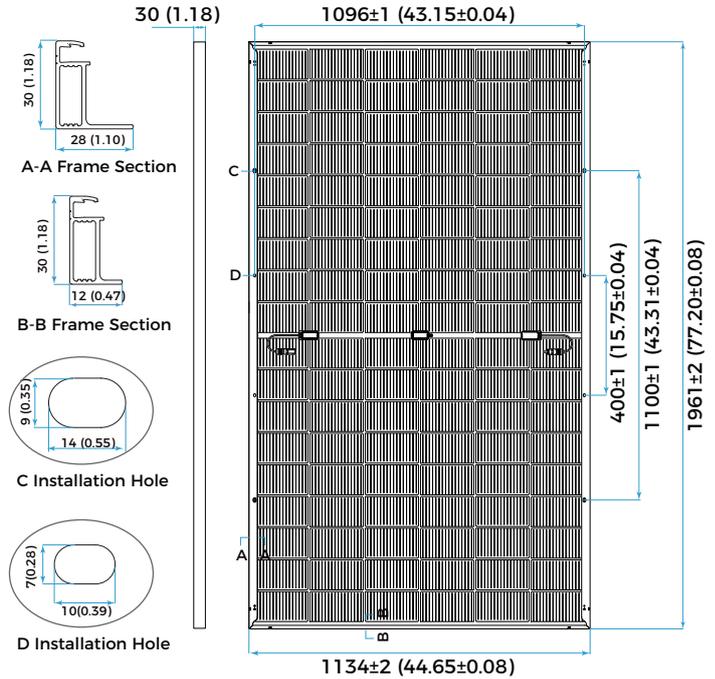
Unit: mm (inch)

## 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 <sup>2</sup> (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 <sup>2</sup> )/2400Pa (50lb/ft <sup>2</sup> )
Bifaciality	80%±5%
Hail Test	35mm, 27.2 m/s.
Fire Resistance	IEC Class A/ UL Type 29



## Electrical Characteristics - STC

Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM-1.5, Test uncertainty for Pmax: ±3%

Maximum Power at STC (Pmax/W)	515	510	505	500	495	490
Power Tolerance (W)	0 ~ +5					
Optimum Operating Voltage (Vmp/V)	33.89	33.69	33.49	33.29	33.09	32.89
Optimum Operating Current (Imp/A)	15.20	15.14	15.08	15.02	14.96	14.90
Open Circuit Voltage (Voc/V)	40.89	40.59	40.29	40.09	39.79	39.59
Short Circuit Current (Isc/A)	15.98	15.93	15.88	15.85	15.82	15.79
Module Efficiency	23.2%	22.9%	22.7%	22.5%	22.2%	22.0%

## Electrical Characteristics - BNPI

Irradiance: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>, Cell temperature 25 °C, AM-1.5.

Maximum Power at BNPI (Pmax/W)	567	561	556	550	545	539
Optimum Operating Voltage (Vmp/V)	33.89	33.69	33.49	33.29	33.09	32.89
Optimum Operating Current (Imp/A)	16.73	16.66	16.60	16.53	16.46	16.40
Open Circuit Voltage (Voc/V)	40.99	40.69	40.39	40.19	39.89	39.69
Short Circuit Current (Isc/A)	17.62	17.56	17.51	17.47	17.44	17.41

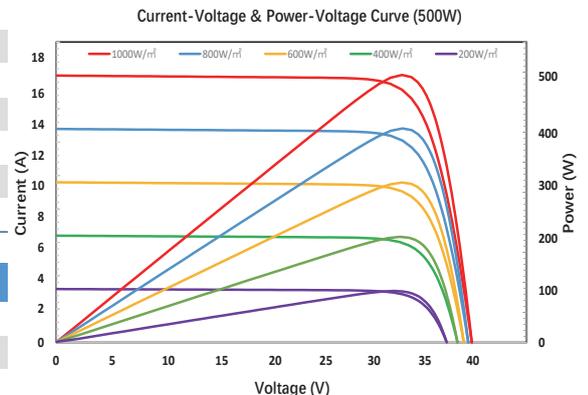
## Rearside Power Gain

(Reference to 500W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	525	575	625
Optimum Operating Voltage (Vmp/V)	33.29	33.29	33.30
Optimum Operating Current (Imp/A)	15.77	17.27	18.77
Open Circuit Voltage (Voc/V)	40.09	40.09	40.10
Short Circuit Current (Isc/A)	16.64	18.23	19.81
Module Efficiency	23.6%	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



©Copyright 2025 RUNERGY  
HY-DH108N11-Global-Ver25Q4