

RUNERGY

HY-DH108N11-XXX

495-520W

23.4%

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



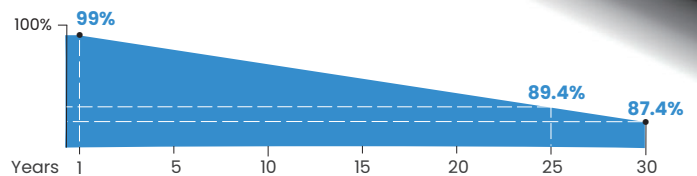
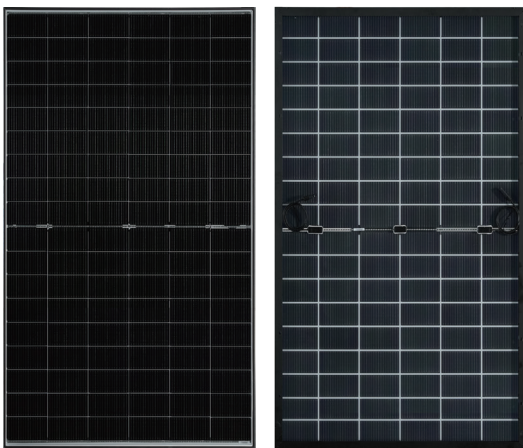
Long-term Reliability

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 (STC) Warranty

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



12-year product warranty



30-year linear power (STC) warranty

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



Jiangsu Runergy New Energy Technology Co., Ltd.

Assembled In China/Thailand/USA

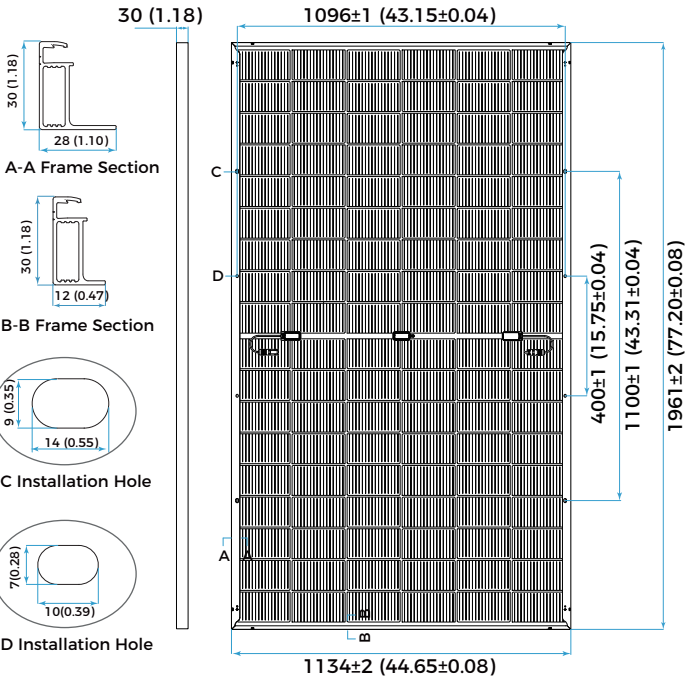
www.runergy.com sales-inform@runergy.com

Mechanical Parameters

Solar Cell	Mono N-Type 182*210mm
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	PV-KST4-EVO2A/xy,PV KBT4-EVO2A/xy (Staubli) or PV-KST4-EVO 2/xy_UR,PV KBT4-EVO 2/xy_UR (Staubli)
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)

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40°C ~ +70°C (-40°F ~ +158°F)
Max. Fuse Rating	35A
Front/Back Max. Loading	+5400Pa (+112lb/ft ²)/-2400Pa (-50lb/ft ²)
Bifaciality	Pm:80±5%, Voc:98±2%, Isc:80±5%.
Temperature rating	T98 th 70°C
Fire Resistance	IEC Class A/ UL type 29



Electrical Characteristics - STC

Irradiance 1000 W/m², cell temperature 25 °C, AM-1.5, Tolerances: Pmax:±3%,Voc:±3%,Isc:±4%

Maximum Power at STC (Pmax/W)	520	515	510	505	500	495
Power Tolerance (W)	0 ~ +5					
Optimum Operating Voltage (Vmp/V)	34.08	33.89	33.69	33.49	33.29	33.09
Optimum Operating Current (Imp/A)	15.26	15.20	15.14	15.08	15.02	14.96
Open Circuit Voltage (Voc/V)	41.08	40.89	40.59	40.29	40.09	39.79
Short Circuit Current (Isc/A)	16.02	15.98	15.93	15.88	15.85	15.82
Module Efficiency	23.4%	23.2%	22.9%	22.7%	22.5%	22.2%

Electrical Characteristics - BNPI

Irradiance: front 1000W/m², rear 135W/m², Cell temperature 20 °C, AM-1.5, Tolerances: Pmax:±3%,Voc:±3%,Isc:±4%

Maximum Power at BNPI (Pmax/W)	565	560	555	550	545	540
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

Short Circuit Current - BSI

Irradiance: front 1000W/m², rear 300W/m².

Short Circuit Current - BSI(Isc-BSI/A)	19.58	19.49	19.44	19.41	19.38	19.35
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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

