

RUNERGY

HY-DH144N8-XXX

570-600W

23.2%

Max. Efficiency

N-Type

Bifacial & Dual Glass

144 Pieces

Half-Cell



Leading Technology

Based on n-type cell and M10 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



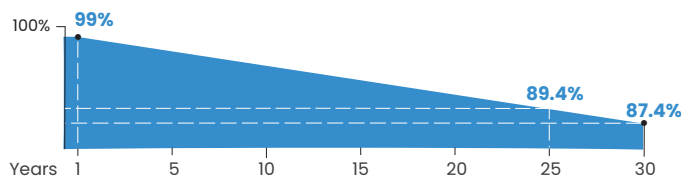
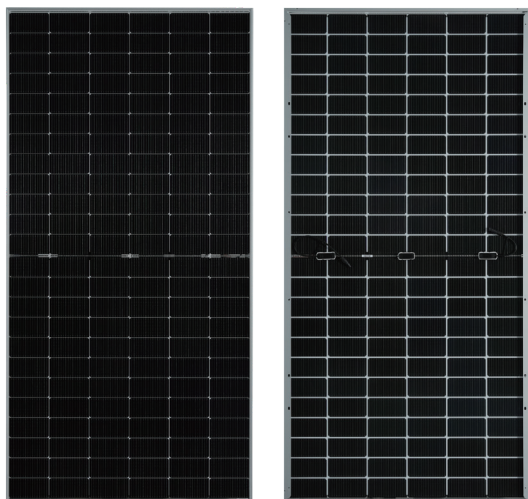
Long-term Reliability

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

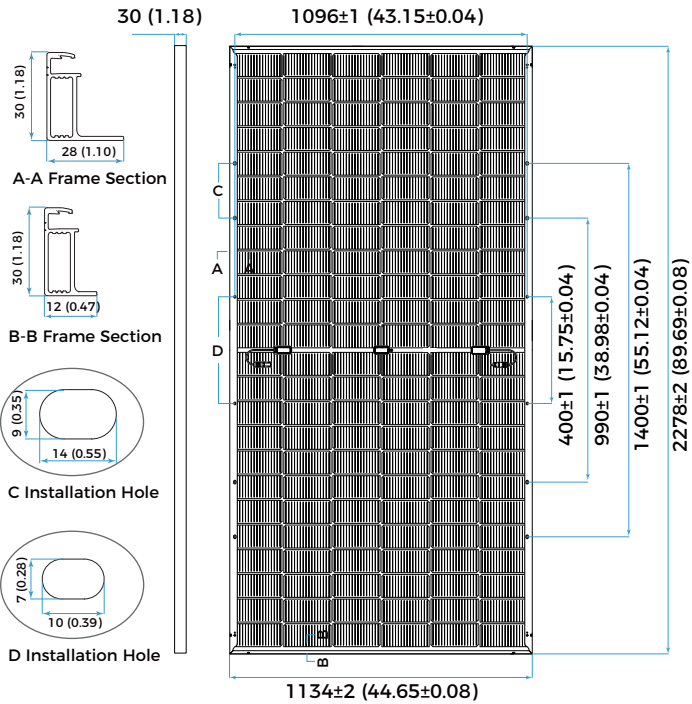
Unit: mm (inch)

Mechanical Parameters

Solar Cell	Mono N-Type 182mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 30mm (89.69× 44.65 × 1.18in.)
Weight	32kg (70.55lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm ² (IEC), 12 AWG(UL) +400/-200mm (+15.75/-7.87in.) 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	Silver anodized aluminum
Container	36 pcs/Pallet, 720 pcs/40' HQ (Global)

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40℃ ~ +70℃ (-40°F ~ +158°F)
Max. Fuse Rating	30A
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℃
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)	600	595	590	585	580	575	570
Power Tolerance (W)	0 ~ +5						
Optimum Operating Voltage (Vmp/V)	44.85	44.64	44.43	44.22	44.04	43.83	43.62
Optimum Operating Current (Imp/A)	13.38	13.33	13.28	13.23	13.17	13.12	13.07
Open Circuit Voltage (Voc/V)	52.79	52.58	52.37	52.16	51.97	51.74	51.52
Short Circuit Current (Isc/A)	13.97	13.93	13.89	13.85	13.80	13.75	13.70
Module Efficiency	23.2%	23.0%	22.8%	22.6%	22.5%	22.3%	22.1%

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)	655	650	645	640	635	630	625
Optimum Operating Voltage (Vmp/V)	44.85	44.64	44.43	44.22	44.04	43.83	43.62
Optimum Operating Current (Imp/A)	14.73	14.67	14.62	14.56	14.49	14.44	14.38
Open Circuit Voltage (Voc/V)	52.92	52.71	52.50	52.29	52.10	51.87	51.65
Short Circuit Current (Isc/A)	15.40	15.36	15.31	15.27	15.21	15.16	15.10

Short Circuit Current - BSI

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

Short Circuit Current -BSI(Isc-BSI/A)	17.15	17.11	17.05	17.01	16.93	16.88	16.81
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Rearside Power Gain (Reference to 585W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	614	673	731
Optimum Operating Voltage (Vmp/V)	44.22	44.32	44.32
Optimum Operating Current (Imp/A)	13.89	15.18	16.50
Open Circuit Voltage (Voc/V)	52.16	52.26	52.26
Short Circuit Current (Isc/A)	14.54	15.90	17.28
Module Efficiency	23.8%	26.1%	28.3%

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

