RUNERGY

HY-DH144N8

580-600W

23.2%	N-Type	144 Pieces
Max. Efficiency	Bifacial & Dual Glass	Half-Cell

Leading Technology

Based on n-type cell and 182 technology platform; Advanced design and manufacturing process; Industry leading reliability and efficiency of mass production

High Power

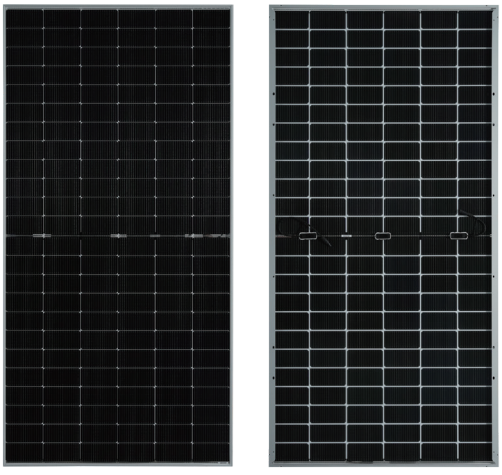
Bifacial higher power output, lower temperature coefficient and better low light performance; Significantly enhanced power output and lower LCOE

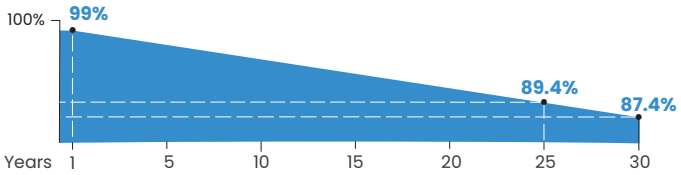
Long-term Reliability

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 12-year product warranty

30 30-year linear power warranty

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

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HY-DH144N8 580-600

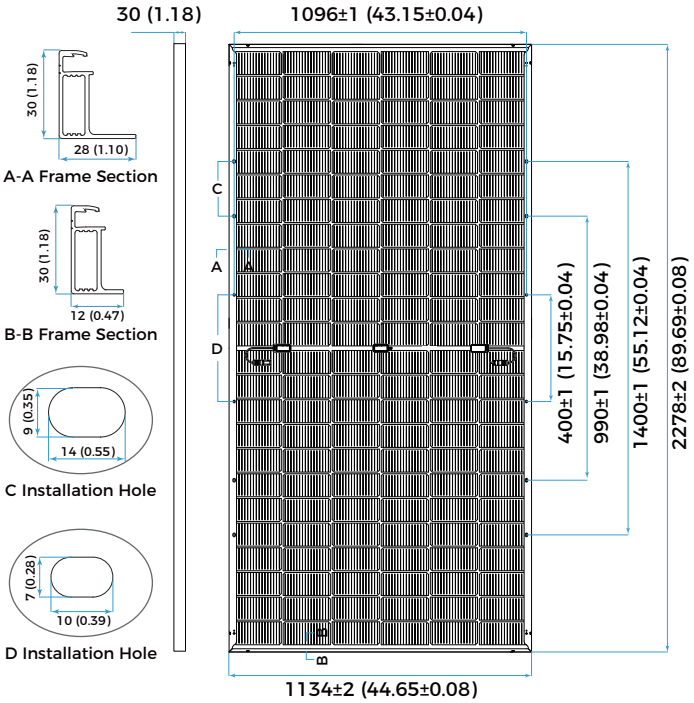
Mechanical Parameters

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	4mm² (IEC), 12 AWG(UL) +400/-200mm (+15.75/-7.87in.) or customized
Connector	RY01 or similar
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), 576 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	30A
Front/Back Max. Loading	5400Pa (112lb/ft²)/2400Pa (50lb/ft²)
Bifaciality	80%±5%
Hail Test	35mm, 27.2 m/s.
Fire Resistance	IEC Class A/ UL Type 29

Unit: mm (inch)



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)	600	595	590	585	580
Power Tolerance (W)			0 ~ +5		
Optimum Operating Voltage (Vmp/V)	44.85	44.64	44.43	44.22	44.04
Optimum Operating Current (Imp/A)	13.38	13.33	13.28	13.23	13.17
Open Circuit Voltage (Voc/V)	52.79	52.58	52.37	52.16	51.97
Short Circuit Current (Isc/A)	13.97	13.93	13.89	13.85	13.80
Module Efficiency	23.2%	23.0%	22.8%	22.6%	22.5%

Electrical Characteristics - BNPI

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

Maximum Power at BNPI (Pmax/W)	661	655	650	644	638
Optimum Operating Voltage (Vmp/V)	44.85	44.64	44.43	44.22	44.04
Optimum Operating Current (Imp/A)	14.73	14.67	14.62	14.56	14.49
Open Circuit Voltage (Voc/V)	52.92	52.71	52.50	52.29	52.10
Short Circuit Current (Isc/A)	15.40	15.36	15.31	15.27	15.21

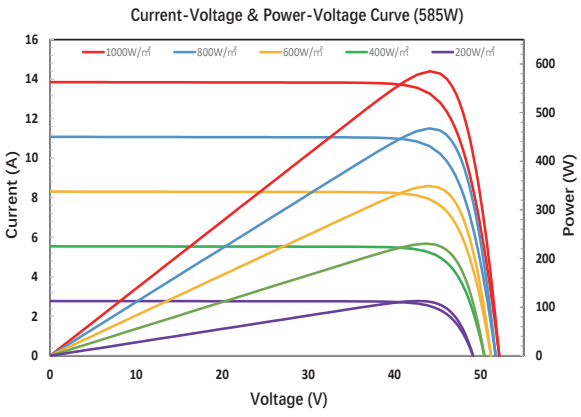
Rearside Power Gain

(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



HY-DH144N8-Global-Ver25Q4

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