

RUNERGY

HY-DH144N8

570-595W

23.0%

Max. Efficiency

N-Type

Bifacial & Dual Glass

144 Pieces

Half-Cell



High Conversion Efficiency

Module efficiency up to 23.0% based on N-Type wafer and advanced N-Type cell technology



Excellent Energy Yield

More power output in field operation due to better thermal behaviors, weak-light performance and bifaciality



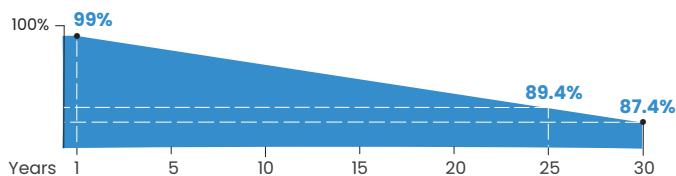
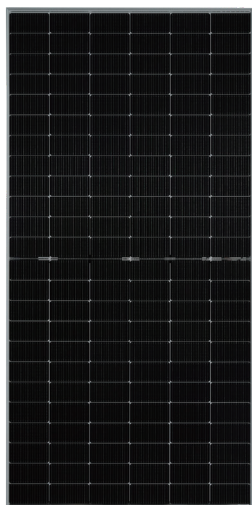
Outstanding Anti-degradation

Unsusceptible to LID, LeTID and less annual degradation due to special characteristics of N-Type



Quality Guarantee

High module quality ensures 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

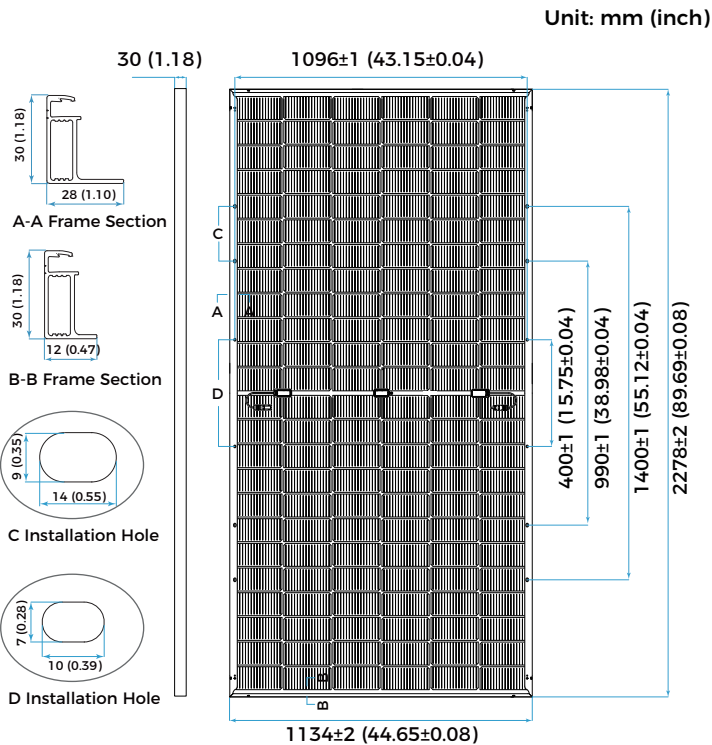
IEC61215 / IEC61730 / UL61730 / IEC61701 / IEC62716 / IEC60068 / ISO9001 / ISO14001 / ISO45001



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

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	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℃ ~ +85℃ (-40°F ~ +185°F)
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa (112lb/ft ²)
Backside Max. Loading	2400Pa (50lb/ft ²)
Bifaciality	80±5%
Fire Resistance	IEC Class A/ UL Type 29



Electrical Characteristics - STC	Irradiance 1000 W/m ² , cell temperature 25 °C, AM-1.5, Test uncertainty for Pmax: ±3%					
Maximum Power at STC (Pmax/W)	595	590	585	580	575	570
Power Tolerance (W)	0 ~ +5					
Optimum Operating Voltage (Vmp/V)	44.64	44.43	44.22	44.04	43.83	43.62
Optimum Operating Current (Imp/A)	13.33	13.28	13.23	13.17	13.12	13.07
Open Circuit Voltage (Voc/V)	52.58	52.37	52.16	51.97	51.74	51.52
Short Circuit Current (Isc/A)	13.93	13.89	13.85	13.80	13.75	13.70
Module Efficiency	23.0%	22.8%	22.6%	22.5%	22.3%	22.1%

Electrical Characteristics - BNPI	Irradiance: front 1000W/m ² , rear 135W/m ² , Cell temperature 20 °C, AM-1.5.					
Maximum Power at BNPI (Pmax/W)	655	650	644	638	633	627
Optimum Operating Voltage (Vmp/V)	44.64	44.43	44.22	44.04	43.83	43.62
Optimum Operating Current (Imp/A)	14.67	14.62	14.56	14.49	14.44	14.38
Open Circuit Voltage (Voc/V)	52.71	52.50	52.29	52.10	51.87	51.65
Short Circuit Current (Isc/A)	15.36	15.31	15.27	15.21	15.16	15.10

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

