

RUNERGY

TIER 1 HY-DH132N11 Pro

600-630W

23.3% Max. Efficiency
N-Type Bifacial & Dual Glass
132 Pieces Half-Cell



Advanced Technology

Embracing N-type cells and a novel product technology platform. The mass production efficiency and reliability are leading in the industry.



Dual-Sided Power Generation

Dual-sided power generation gain increases with backside exposure to light, significantly reducing LCOE.



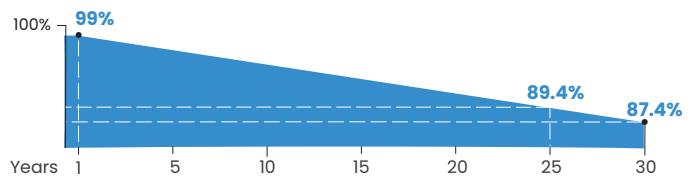
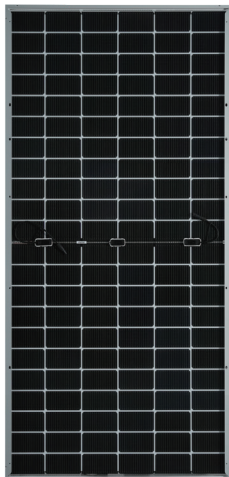
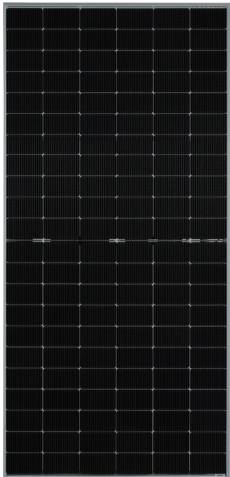
Enhanced Hail Resistance

The front glass is fully tempered and has passed the 55mm hail test. Module mechanical load also has been enhanced.



Solid Quality, Steady Reliability

Dual-glass design, exhibiting strong resistance to water vapor and guaranteeing 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



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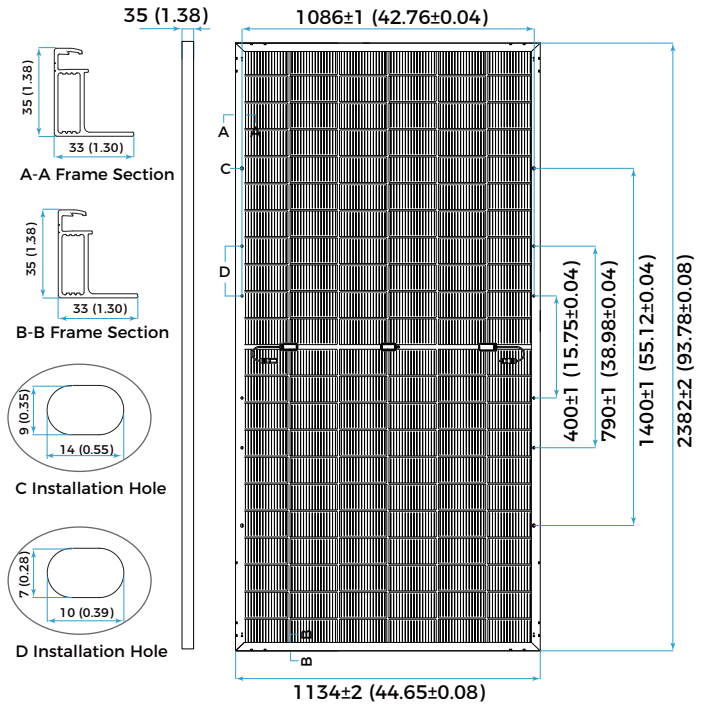
Unit: mm (inch)

Mechanical Parameters

Solar Cell	Mono N-Type 182*210 mm
No. of Cells	132 (6 × 22)
Dimensions	2382 × 1134 × 35mm (93.78 × 44.65 × 1.38in.)
Weight	41.0kg (90.39lbs)
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	3.2mm AR coated fully tempered glass
Back Cover	2.0mm heat-strengthened glass
Frame	Silver-anodized aluminum
Container	31 pcs/pallet, 558 pcs/40' HQ (Global), 434 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	6000Pa (112lb/ft ²)/3600Pa (50lb/ft ²)
Hail Test	55mm, 33.9 m/s.
Bifaciality	80%±5%
Fire Resistance	IEC Class A/ UL Type 29



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)	630	625	620	615	610	605	600
Power Tolerance (W)				0 ~ +5			
Optimum Operating Voltage (Vmp/V)	41.89	41.62	41.34	41.06	40.78	40.50	40.22
Optimum Operating Current (Imp/A)	15.04	15.02	15.00	14.98	14.96	14.94	14.92
Open Circuit Voltage (Voc/V)	49.31	49.11	48.91	48.71	48.51	48.31	48.11
Short Circuit Current (Isc/A)	15.96	15.93	15.90	15.87	15.84	15.81	15.78
Module Efficiency	23.3%	23.1%	23.0%	22.8%	22.6%	22.4%	22.2%

Electrical Characteristics - BNPI

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

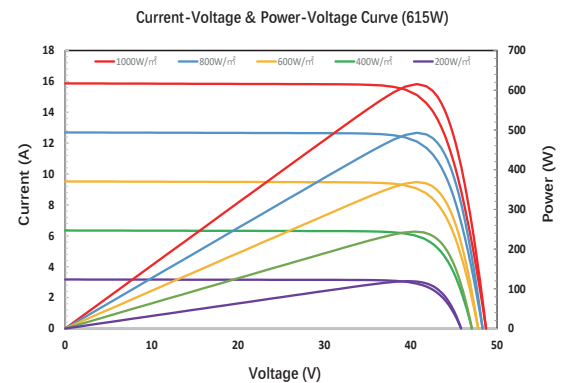
Maximum Power at BNPI (Pmax/W)	693	688	683	677	671	666	660
Optimum Operating Voltage (Vmp/V)	41.89	41.62	41.34	41.06	40.78	40.50	40.22
Optimum Operating Current (Imp/A)	16.55	16.53	16.51	16.49	16.46	16.44	16.42
Open Circuit Voltage (Voc/V)	49.43	49.23	49.03	48.83	48.63	48.43	48.23
Short Circuit Current (Isc/A)	17.59	17.56	17.53	17.49	17.46	17.43	17.40

Rearside Power Gain (Reference to 615W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	646	707	769
Optimum Operating Voltage (Vmp/V)	41.06	41.16	41.16
Optimum Operating Current (Imp/A)	15.73	17.18	18.68
Open Circuit Voltage (Voc/V)	48.71	48.81	48.81
Short Circuit Current (Isc/A)	16.66	18.21	19.79
Module Efficiency	23.9%	26.2%	28.5%

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



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