

# RUNERGY

## HY-DH96N11-XXX **Monofacial** 470-475W

**23.8%**

Max. Efficiency

**N-Type**

Monofacial & Dual Glass

**96 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



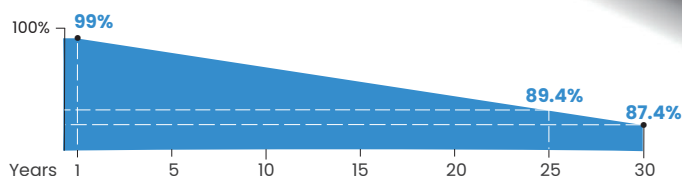
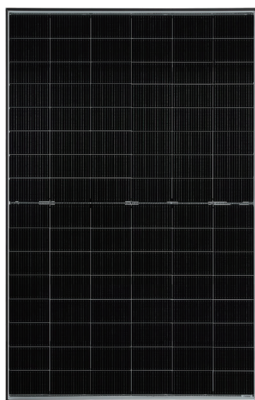
### Long-term Reliability

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%**



25\*-year product warranty



30-year linear power (STC) warranty

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



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Assembled In China/Thailand/USA

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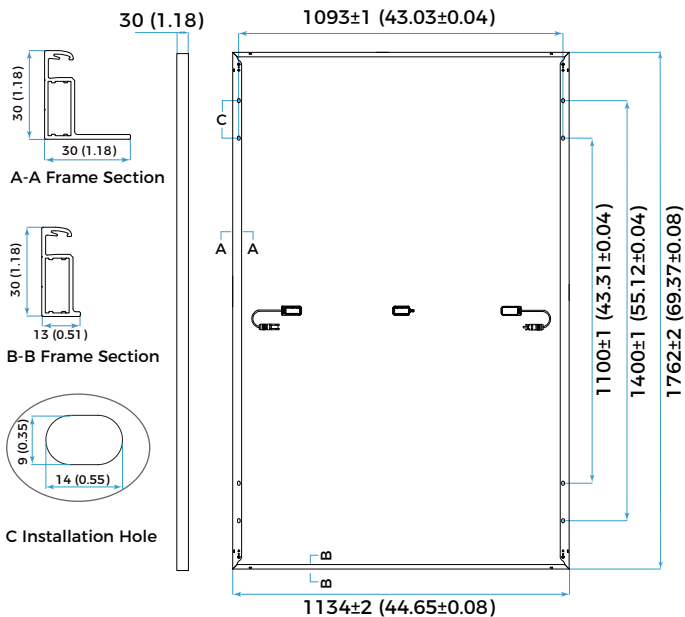
Unit: mm (inch)

Mechanical Parameters

Solar Cell	Mono N-Type 182*210mm
No. of Cells	96 (6 × 16)
Dimensions	1762 × 1134 × 30mm (69.37 x 44.65 x 1.18in)
Weight	25kg (55.12lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (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, 936 pcs/40' HQ (Global)

Operating Parameters

Max. System Voltage	DC 1500V (IEC/UL)
Operating Temperature	-40℃ ~ +70℃ (-40°F ~ +158°F)
Max. Fuse Rating	35A
Front Max. Loading	+5400Pa (+112lb/ft²)
Back Max. Loading	-2400Pa (-50lb/ft²)
Temperature rating	T98 <sup>th</sup> 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)	475	470
Power Tolerance (W)	0 ~ +5	
Optimum Operating Voltage (Vmp/V)	30.09	29.96
Optimum Operating Current (Imp/A)	15.79	15.69
Open Circuit Voltage (Voc/V)	35.91	35.78
Short Circuit Current (Isc/A)	16.47	16.39
Module Efficiency	23.8%	23.5%

Electrical Characteristics - NMOT

Irradiance 800W/m², ambient temperature 20°C, AM 1.5, wind speed 1m/s, Tolerances: Pmax:±3%,Voc:±3%,Isc:±4%

Maximum Power at NMOT (Pmax/W)	363.9	360.0
Optimum Operating Voltage (Vmp/V)	28.81	28.69
Optimum Operating Current (Imp/A)	12.63	12.55
Open Circuit Voltage (Voc/V)	34.38	34.26
Short Circuit Current (Isc/A)	13.28	13.21

Warranty

Product Workmanship Warranty	25* Years
Linear Power Output Warranty	30 Years
First Year Degradation	1%
Annual Power Degradation	0.4%

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

\*The product with 25-year limited product warranty is only available for rooftop installation within Australia with a maximum capacity of 200KW

