

RUNERGY

HY-DH156N8 **Plus**

625-645W

23.1%

Max. Efficiency

N-Type

Bifacial & Dual Glass

156 Pieces

Half-Cell



High Conversion Efficiency

Module efficiency up to 23.1% 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



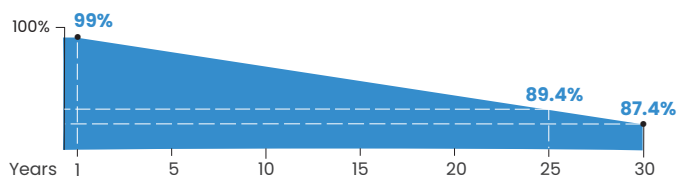
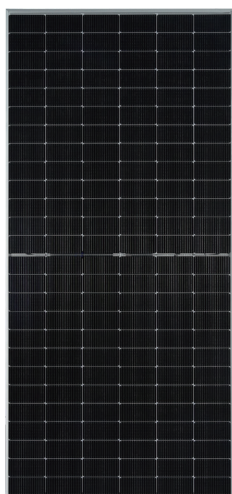
Outstanding Anti-degradation

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



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Mechanical Parameters	
Solar Cell	Mono N-Type 182mm
No. of Cells	156 (6 × 26)
Dimensions	2465 × 1134 × 35mm (97.05 × 44.65 × 1.38in.)
Weight	34.4kg (75.84lbs)
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	31 pcs/Pallet, 496 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 , ambient temperature 25 °C, AM-1.5, , Test uncertainty for Pmax: ±3%				
Maximum Power at STC (Pmax/W)	645	640	635	630	625
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	48.32	48.13	47.97	47.80	47.61
Optimum Operating Current (Imp/A)	13.35	13.30	13.24	13.18	13.13
Open Circuit Voltage (Voc/V)	56.95	56.75	56.56	56.37	56.18
Short Circuit Current (Isc/A)	13.98	13.94	13.89	13.84	13.79
Module Efficiency	23.1%	22.9%	22.7%	22.5%	22.4%

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)	710	705	699	694	688
Optimum Operating Voltage (Vmp/V)	48.32	48.13	47.97	47.80	47.61
Optimum Operating Current (Imp/A)	14.69	14.64	14.57	14.51	14.45
Open Circuit Voltage (Voc/V)	57.09	56.89	56.70	56.51	56.32
Short Circuit Current (Isc/A)	15.41	15.37	15.31	15.26	15.20

Rearside Power Gain (Reference to 645W Front)			
Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	677	742	806
Optimum Operating Voltage (Vmp/V)	48.32	48.42	48.42
Optimum Operating Current (Imp/A)	14.02	15.32	16.65
Open Circuit Voltage (Voc/V)	56.95	57.05	57.05
Short Circuit Current (Isc/A)	14.68	16.05	17.44
Module Efficiency	24.2%	26.5%	28.8%

Temperature Characteristics	
Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.29%/℃
Temperature Coefficient of Voc	-0.25%/℃
Temperature Coefficient of Isc	0.045%/℃

