RUNERGY

MADE IN THAILAND/CHINA

HY-DH144N8

560-580W

144 Pieces | HALF-CELL | N-Type

22.5%
Max.Efficiency

N-Type
Bifacial & Dual Glass

High Conversion Efficiency

Module efficiency up to 22.5% 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 and less annual degradation due to special charateristics of N-Type

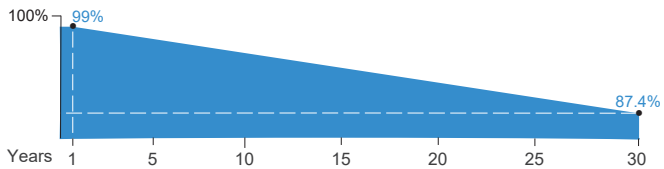
Quality Guarantee

High module quality ensures long-term reliability

Intertek

Munich RE

IEC61215 / IEC61730 / UL61730
IEC61701 / IEC62716 / IEC60068
ISO9001 / ISO14001/ ISO45001
Evidence for IEC61701/62716/60068 is available on request.



Runergy N-Type Dual Glass Product Performance Warranty

12 Years Product Warranty

30 Years Linear Power Warranty

1% First Year Degradation

0.4% Annual Power Degradation

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HY-DH144N8-560/580

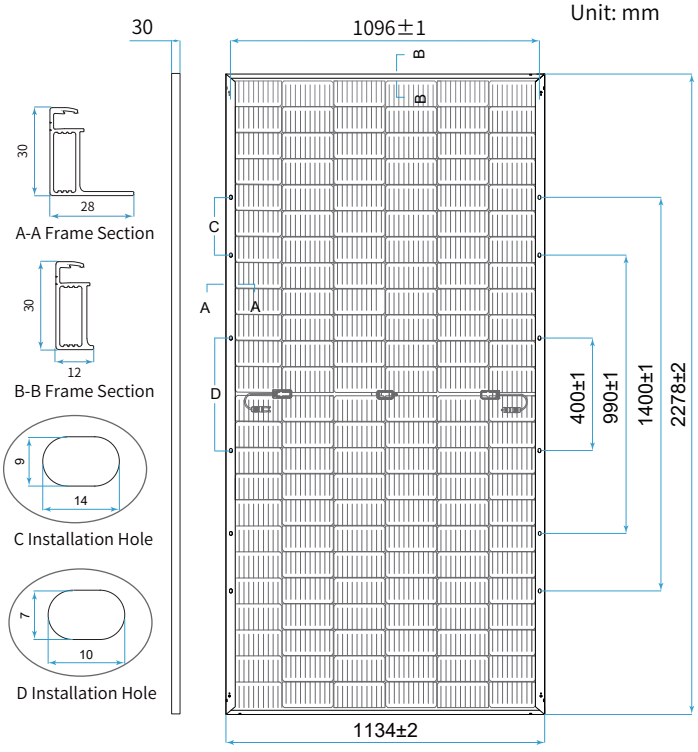
Mechanical Parameters

Solar Cell	Mono N-Type 182 mm
No. of Cells	144(6 × 24)
Dimensions	2278 × 1134 × 30mm
Weight	32.0kg
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (IEC), 12 AWG(UL) +400/-200mm or customized
Connector	RY01, QC4.10, GT4, PV-KST4-EVO 2/xy_UR, PV-KBT4-EVO 2/xy_UR
Front Cover	2.0mm semi-tempered AR glass
Back Cover	2.0mm semi-tempered glass
Container	36 pcs/Pallet, 720 pcs/40' HC

Operating Parameters

Max. System Voltage	DC 1500V（IEC/UL）
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa
Backside Max. Loading	2400Pa
Bifaciality	80%±10% (Pmax) 98%±2%(Voc) 80%±10%(Isc)
Fire Resistance	IEC Class A

Unit: mm



Electrical Characteristics - STC

Irradiance 1000 W/m², ambient temperature 25 °C, AM1.5, Test uncertainty for Pmax: ±3%

Maximum Power at STC (Pmax/W)	580	575	570
Power Tolerance (W)		0 ~ +5	
Optimum Operating Voltage (Vmp/V)	42.59	42.44	42.29
Optimum Operating Current (Imp/A)	13.62	13.55	13.48
Open Circuit Voltage (Voc/V)	51.47	51.27	51.07
Short Circuit Current (Isc/A)	14.37	14.31	14.25
Module Efficiency	22.5%	22.3%	22.1%

Electrical Characteristics - BNPI

Maximum Power at NMOT (Pmax/W)	635	630	625
Optimum Operating Voltage (Vmp/V)	42.44	42.29	42.14
Optimum Operating Current (Imp/A)	15.00	14.92	14.84
Open Circuit Voltage (Voc/V)	51.40	51.20	50.99
Short Circuit Current (Isc/A)	15.87	15.80	15.73

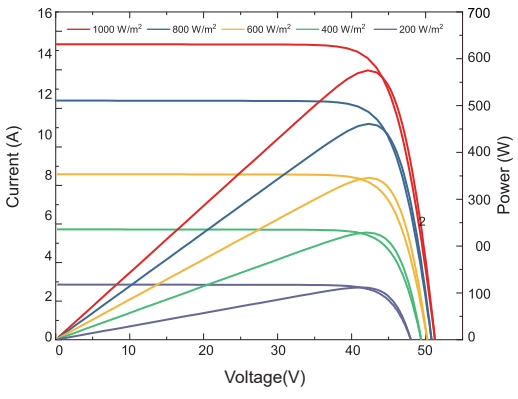
Rearside Power Gain (Reference to 580W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	609	667	725
Optimum Operating Voltage (Vmp/V)	42.59	42.69	42.69
Optimum Operating Current (Imp/A)	14.30	15.62	16.98
Open Circuit Voltage (Voc/V)	51.47	51.57	51.57
Short Circuit Current (Isc/A)	15.09	16.49	17.93
Module Efficiency	23.6%	25.8%	28.1%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.31%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.05%/ °C

Current-Voltage & Power-Voltage Curve (575W)



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