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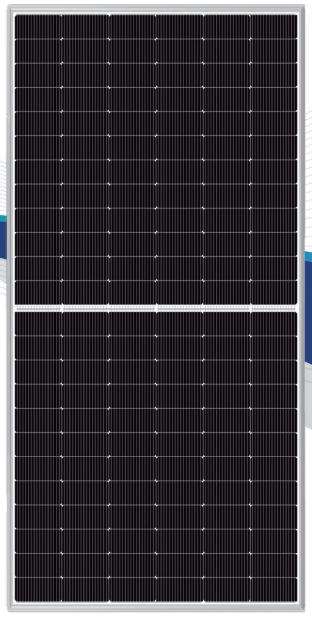
HY-DH144N8

560-585W

144 Pieces | HALF-CELL | N-Type

22.6%
Max.Efficiency

N-Type
Bifacial & Dual Glass



High Conversion Efficiency

Module efficiency up to 22.6% 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

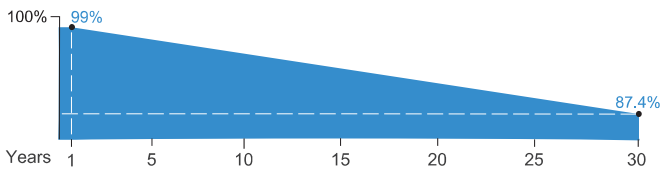
Outstanding Anti-degradation

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

Quality Guarantee

High module quality ensures long-term reliability

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



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-DH144N8-560/585

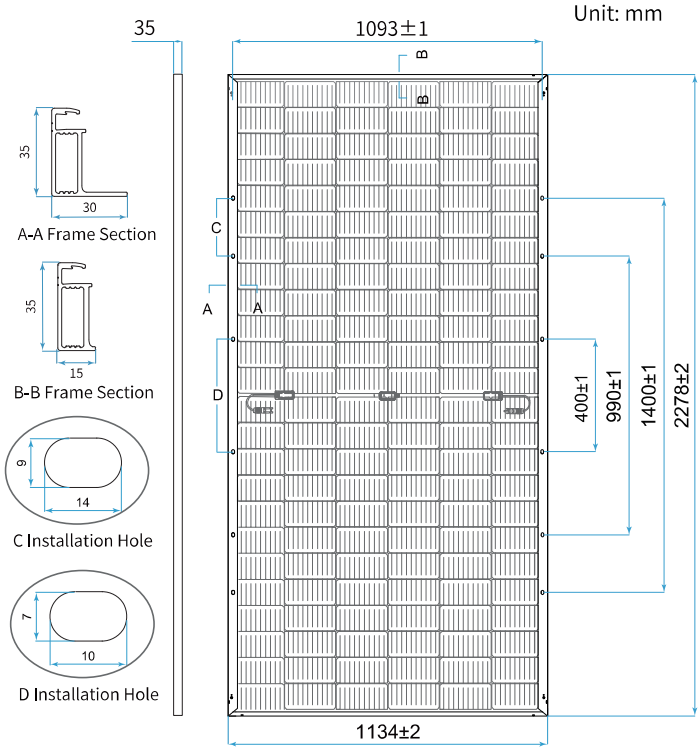
Mechanical Parameters

Solar Cell	Mono N-Type 182 mm
No. of Cells	144(6 × 24)
Dimensions	2278 × 1134 × 35mm
Weight	32.7kg
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (IEC), 12 AWG(UL) +400/-200mm or customized
Connector	RY01 or similar
Front Cover	2.0mm semi-tempered AR glass
Back Cover	2.0mm semi-tempered glass
Container	31 pcs/Pallet, 620 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%
Fire Resistance	IEC Class A

Unit: mm



Electrical Characteristics - STC

Irradiance 1000 W/m², ambient temperature 25 °C, AM1.5.

Maximum Power at STC (Pmax/W)	585	580	575	570	565	560
Power Tolerance (W)	0 ~ +5					
Optimum Operating Voltage (Vmp/V)	42.74	42.59	42.44	42.29	42.14	41.95
Optimum Operating Current (Imp/A)	13.69	13.62	13.55	13.48	13.41	13.35
Open Circuit Voltage (Voc/V)	51.67	51.47	51.27	51.07	50.87	50.67
Short Circuit Current (Isc/A)	14.43	14.37	14.31	14.25	14.19	14.13
Module Efficiency	22.6%	22.5%	22.3%	22.1%	21.9%	21.7%

Electrical Characteristics - NMOT

Irradiance 800 W/m², ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

Maximum Power at NMOT (Pmax/W)	446.5	442.7	438.9	435.0	431.3	427.4
Optimum Operating Voltage (Vmp/V)	40.92	40.77	40.63	40.49	40.34	40.16
Optimum Operating Current (Imp/A)	10.91	10.86	10.80	10.75	10.69	10.64
Open Circuit Voltage (Voc/V)	49.47	49.27	49.08	48.89	48.70	48.51
Short Circuit Current (Isc/A)	11.61	11.56	11.51	11.46	11.41	11.37

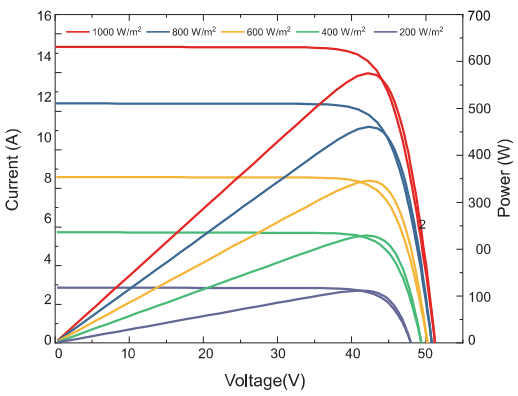
Rearside Power Gain (Reference to 585W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	614	673	731
Optimum Operating Voltage (Vmp/V)	42.74	42.84	42.84
Optimum Operating Current (Imp/A)	14.37	15.70	17.07
Open Circuit Voltage (Voc/V)	51.67	51.77	51.77
Short Circuit Current (Isc/A)	15.15	16.56	18.00
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	-0.31%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	0.05%/ °C

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



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

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