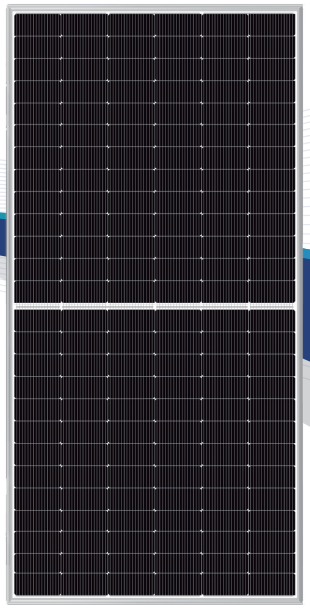
HYPERION SOLAR

MADE IN THAILAND

HY-DH156N8

600-625W

156 Pieces | HALF-CELL | N-Type



22.4% Max.Efficiency

N-Type
Bifacial & Dual Glass

High Conversion Efficiency

Module efficiency up to 22.4% 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

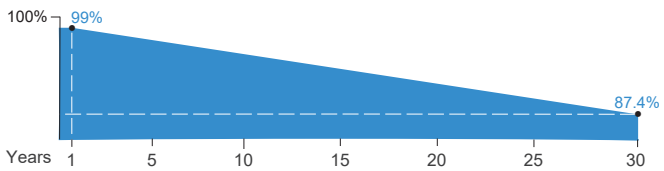
Outstanding Anti-degradation

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



Hyperion N-Type Dual Glass Product Performance Warranty

warranty for materials and workmanship — 12 Years

warranty for extra linear power output — 30 Years

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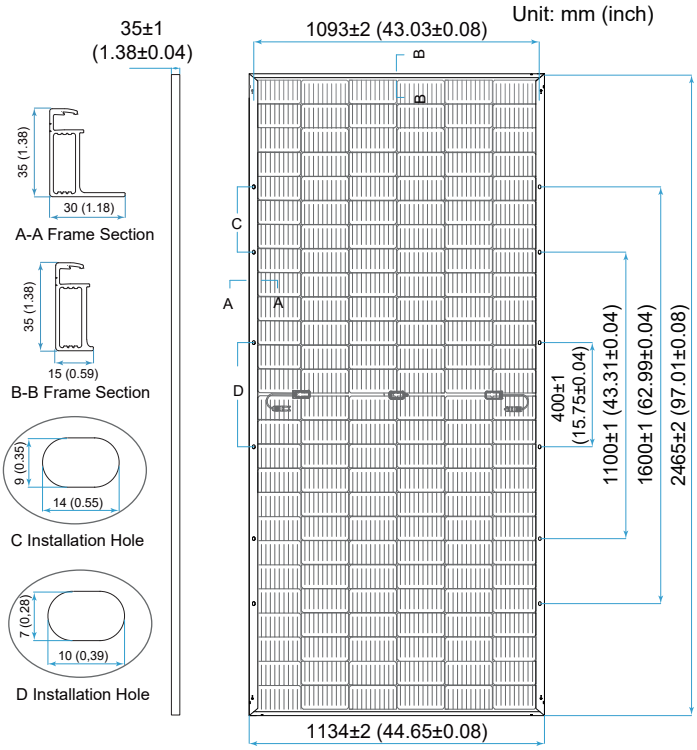
HY-DH156N8-600/625

Mechanical Parameters

Solar Cell	Mono N-Type 182 mm
No. of Cells	156(6 × 26)
Dimensions	2465 × 1134 × 35mm(97.05 × 44.65 × 1.38in.)
Weight	33.4kg(73.63lbs)
Junction Box	IP68 rated (3 bypass diodes)
Output Cable	4mm² (IEC), 12 AWG(UL) +400/-200mm(+15.75/-7.87in.) or customized
Connector	RY01, QC4.10 or similar
Front Cover	2.0mm (0.079in.)semi-tempered AR glass
Back Cover	2.0mm (0.079in.)semi-tempered glass
Container	31 pcs/Pallet, 496 pcs/40' HC

Operating Parameters

Max. System Voltage	DC 1500V（IEC/UL）
Operating Temperature	-40°C ~ +85°C(-40°F ~ +185°F)
Max. Fuse Rating	30A
Frontside Max. Loading	5400Pa(112lb/ft²)
Backside Max. Loading	2400Pa(50lb/ft²)
Bifaciality	80%±10%
Fire Resistance	IEC Class A , UL Type 29



Electrical Characteristics - STC

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

Maximum Power at STC (Pmax/W)	625	620	615	610	605	600
Power Tolerance (W)	0 ~ +5					
Optimum Operating Voltage (Vmp/V)	46.05	45.92	45.76	45.60	45.39	45.20
Optimum Operating Current (Imp/A)	13.58	13.51	13.44	13.38	13.33	13.28
Open Circuit Voltage (Voc/V)	55.63	55.47	55.26	55.10	54.92	54.76
Short Circuit Current (Isc/A)	14.39	14.33	14.27	14.21	14.15	14.09
Module Efficiency	22.4%	22.2%	22.0%	21.8%	21.7%	21.5%

Electrical Characteristics - NMOT

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

Maximum Power at NMOT (Pmax/W)	477.2	473.4	469.3	465.6	461.7	458.1
Optimum Operating Voltage (Vmp/V)	44.09	43.96	43.81	43.65	43.45	43.27
Optimum Operating Current (Imp/A)	10.83	10.77	10.71	10.67	10.63	10.59
Open Circuit Voltage (Voc/V)	53.26	53.10	52.90	52.75	52.58	52.42
Short Circuit Current (Isc/A)	11.57	11.53	11.48	11.43	11.38	11.33

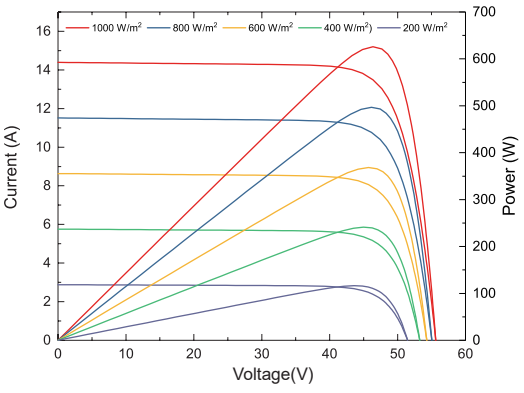
Rearside Power Gain (Reference to 625W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (Pmax/W)	656	719	781
Optimum Operating Voltage (Vmp/V)	46.05	46.15	46.15
Optimum Operating Current (Imp/A)	14.25	15.57	16.93
Open Circuit Voltage (Voc/V)	55.63	55.73	55.73
Short Circuit Current (Isc/A)	15.11	16.52	17.96
Module Efficiency	25.5%	25.7%	27.9%

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 (625W)



HY-DH156N8-US-V2.0

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