



390-415W

High conversion efficiency



Module efficiency up to 21.0% achieved through advanced cell technology and manufacturing process

Excellent weak light performance



More power output in weak light condition, such as cloudy, morning and sunset

Extended mechanical performance



Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

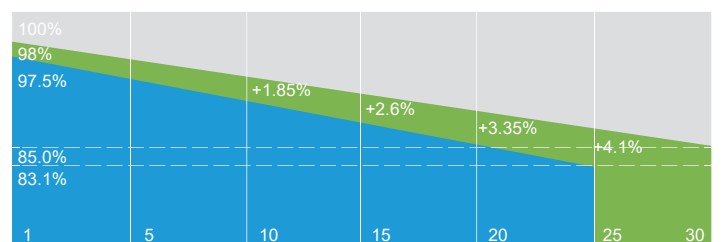
Quality guarantee



High module quality ensures long-term reliability

HY-DH108P8

108 HALF-CELL BIFACIAL MODULE



■ Conventional power degradation

■ Hyperion power degradation



25 Years warranty for materials and processing



30 Years warranty for extra linear power output



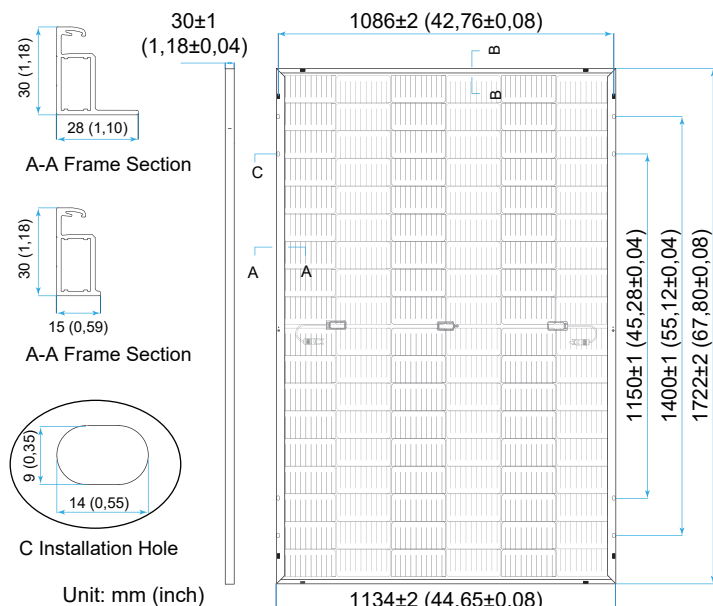
IEC61215 / IEC61730 / UL61730

IEC61701 / IEC62716

ISO9001: Quality Management System



HY-DH108P8-390/410B



Mechanical Characteristics

Solar Cell	Mono PERC 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30mm (67,08 × 44,65 × 1,18in.)
Weight	22.6kg (49,82lbs) ±5%
Cable Cross Section Size	4mm ² (IEC), 12 AWG(UL)
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	(-/+)1200mm (47,24in.) in length & EVO2 connector or customized
Front/Back Glass	2.0mm (0.079in.) AR Semi-tempered glass 2.0mm (0.079in.) Semi-tempered glass
Container	36 pcs/Pallet, 792 pcs/40' HQ

Operating Parameters

Max. System Voltage	DC 1500V
Operating Temperature	-40 °C ~ +85 °C
Max. Fuse Rated Current	30A
Front Static Load(snow,wind)	5400Pa(112lb/ft ²)
Back Static Load(wind)	2400Pa(50lb/ft ²)
Bifaciality	70%±10%
Fire Resistance	IEC Class A, UL Type 29

Electrical Characteristics - STC

Irradiance 1000 W/m², ambient temperature 25 °C, AM=1.5.

Maximum Power at STC (P _{max} /W)	410	405	400	395	390
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (V _{mp} /V)	31.45	31.21	31.01	30.84	30.64
Optimum Operating Current (I _{mp} /A)	13.04	12.98	12.90	12.81	12.73
Open Circuit Voltage (V _{oc} /V)	37.32	37.23	37.07	36.98	36.85
Short Circuit Current (I _{sc} /A)	13.95	13.87	13.79	13.70	13.61
Module Efficiency	21.0%	20.7%	20.5%	20.2%	20.0%

Electrical Characteristics - NMOT

Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

Maximum Power at NMOT (P _{max} /W)	310.2	306.4	302.5	298.8	295.0
Optimum Operating Voltage (V _{mp} /V)	29.82	29.60	29.41	29.25	29.15
Optimum Operating Current (I _{mp} /A)	10.40	10.35	10.29	10.22	10.15
Open Circuit Voltage (V _{oc} /V)	35.39	35.31	35.15	35.07	34.95
Short Circuit Current (I _{sc} /A)	11.25	11.19	11.13	11.05	10.98

Different Rearside Power Gain (Reference to 405W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power (P _{max} /W)	425	466	506
Optimum Operating Voltage (V _{mp} /V)	31.41	31.41	31.40
Optimum Operating Current (I _{mp} /A)	13.59	14.88	16.18
Open Circuit Voltage (V _{oc} /V)	37.22	37.23	37.23
Short Circuit Current (I _{sc} /A)	14.48	15.86	17.24
Module Efficiency	21.68%	23.74%	25.81%

Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of P _{max}	-0.36%/°C
Temperature Coefficient of V _{oc}	-0.304%/°C
Temperature Coefficient of I _{sc}	0.050%/°C

Current-Voltage & Power-Voltage Curve (410W)

