



MADE IN THAILAND



# 390-415W

HY-DH108P8

108 HALF-CELL BIFACIAL MODULE



### 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



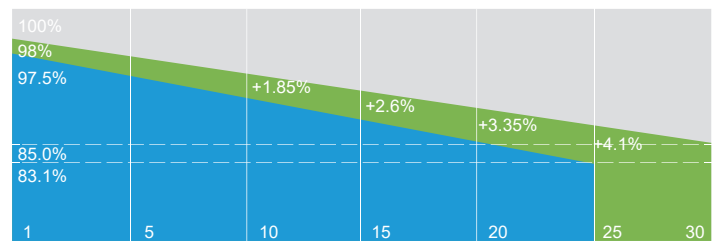
### Extended mechanical performance

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



### Quality guarantee

High module quality ensures long-term reliability



■ Conventional power degradation ■ Hyperion power degradation



12 Years warranty for materials and processing



30 Years warranty for extra linear power output



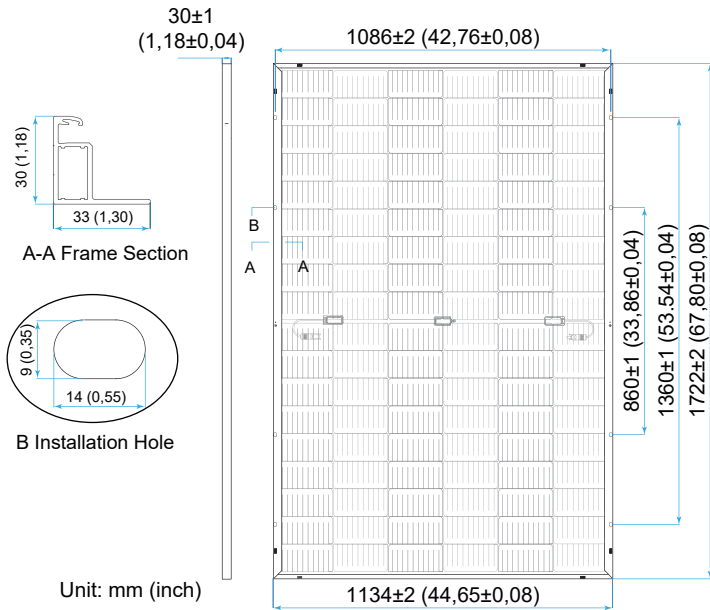
IEC61215 / IEC61730 / UL61730

IEC61701 / IEC62716

ISO9001: Quality Management System

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# 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	23.8kg (52,47lbs) ±5%
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	(-)350mm (13,78in.) & (+)160 mm (6,30in.) in length or customized length
Front/Back Glass	2.0mm ( 0.079in.) AR 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 <sup>2</sup> )
Back Static Load(wind)	2400Pa(50lb/ft <sup>2</sup> )
Bifaciality	70%±10%
Fire Resistance	IEC Class A, UL Type 29

### Electrical Characteristics - STC

	Irradiance 1000 W/m <sup>2</sup> , ambient temperature 25 °C, AM=1.5.				
Maximum Power at STC (Pmax/W)	410	405	400	395	390
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	31.45	31.21	31.01	30.84	30.64
Optimum Operating Current (Imp/A)	13.04	12.98	12.90	12.81	12.73
Open Circuit Voltage (Voc/V)	37.32	37.23	37.07	36.98	36.85
Short Circuit Current (Isc/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/m <sup>2</sup> , ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.				
Maximum Power at NMOT (Pmax/W)	310.2	306.4	302.5	298.8	295.0
Optimum Operating Voltage (Vmp/V)	29.82	29.60	29.41	29.25	29.15
Optimum Operating Current (Imp/A)	10.40	10.35	10.29	10.22	10.15
Open Circuit Voltage (Voc/V)	35.39	35.31	35.15	35.07	34.95
Short Circuit Current (Isc/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 (Pmax/W)	425	466	506
Optimum Operating Voltage (Vmp/V)	31.41	31.41	31.40
Optimum Operating Current (Imp/A)	13.59	14.88	16.18
Open Circuit Voltage (Voc/V)	37.22	37.23	37.23
Short Circuit Current (Isc/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 Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

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

