



# 390-410W

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



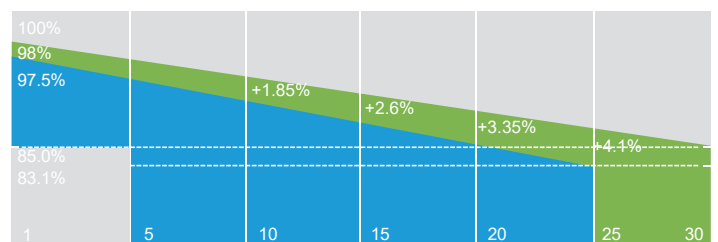
### Extended mechanical performance

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



### Quality guarantee

High module quality ensures long-term reliability



■ First year power degradation

■ Annual power degradation

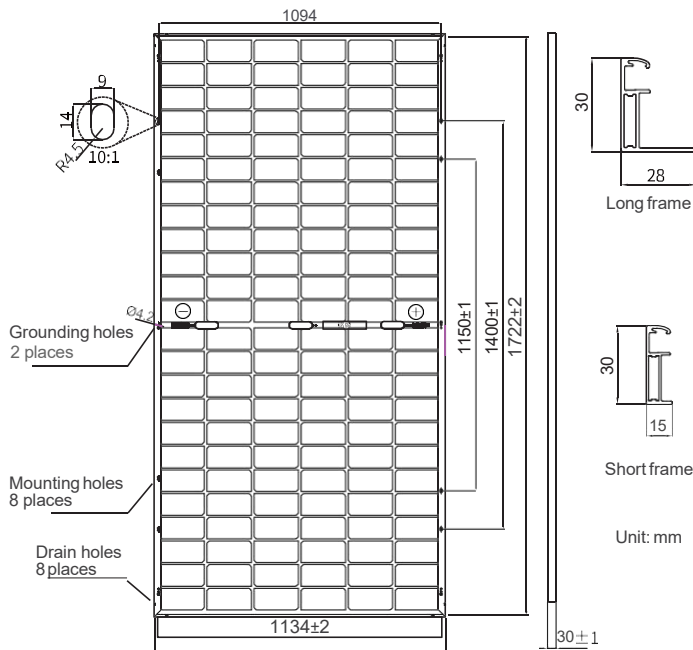


warranty for materials and processing



warranty for extra linear power output





### Mechanical Characteristics

Solar Cell	Mono PERC 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1722±2 × 1134±2 × 30±1 mm
Weight	22.6kg (±5%)
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	Portrait: (-)350 mm and (+)160 mm in length or customized length
Front/Back Glass	2.0mm AR Tempered glass 2.0mm Semi-tempered glass
Container	36 pcs/Pallet, 936 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	UL Type 1

### Electrical Characteristics

Maximum Power at STC (Pmax)	410W	405W	400W	395W	390W
Optimum Operating Voltage (Vmp)	31.45V	31.21V	31.01V	30.84V	30.64V
Optimum Operating Current (Imp)	13.04A	12.98A	12.90A	12.81A	12.73A
Open Circuit Voltage (Voc)	37.32V	37.23V	37.07V	36.98V	36.85V
Short Circuit Current (Isc)	13.95A	13.87A	13.79A	13.70A	13.61A
Module Efficiency	21.0%	20.7%	20.5%	20.2%	20.0%
Operating Module Temperature	-40 °C to +85 °C		Maximum Series Fuse Rating	25 A	
Maximum System Voltage	1500 V DC (IEC)		Power Tolerance	0/+5 W	

### NMOT

Maximum Power at NMOT (Pmax)	309.4W	305.8W	302.2W	298.5W	294.8W
Optimum Operating Voltage (Vmp)	29.2V	29.0V	28.8V	28.6V	28.4V
Optimum Operating Current (Imp)	10.67A	10.63A	10.58A	10.53A	10.47A
Open Circuit Voltage (Voc)	35.21V	35.00V	34.77V	34.61V	34.43V
Short Circuit Current (Isc)	11.22A	11.18A	11.13A	11.08A	11.02A

Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.

### Electrical Characteristics with Different Rearside Power Gain (Reference to 405W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	425W	466W	506W
Optimum Operating Voltage (Vmp)	31.41V	31.41V	31.40V
Optimum Operating Current (Imp)	13.59A	14.88A	16.18A
Open Circuit Voltage (Voc)	37.22V	37.23V	37.23V
Short Circuit Current (Isc)	14.48A	15.86A	17.24A
Module Efficiency	21.68%	23.74%	25.81%

### Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	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 (410S)

