

# RUNERGY

## 395-415W

HY-WH108P8b  
108 HALF-CELL 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 days, morning and sunset



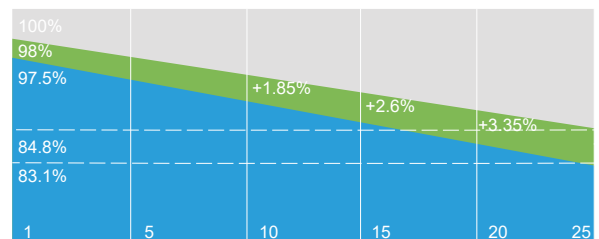
### Extended mechanical performance

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



### Quality guarantee

High module quality ensures long-term reliability



■ Conventional Module

■ Runergy Performance



12 Years warranty for materials and processing



25 Years warranty for extra linear power output



IEC61215 / IEC61730 / UL61730  
IEC61701 / IEC62716 / IEC60068  
ISO9001

Warranty partner

Munich RE 

service-inform@runergy.cn  
58 Xiangjiang Road,  
Economic Development Zone, Yancheng City,  
Jiangsu Province, 224000, China

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HY-WH108P8b-EN-V1.5

## HY-WH108P8-395/415(b)

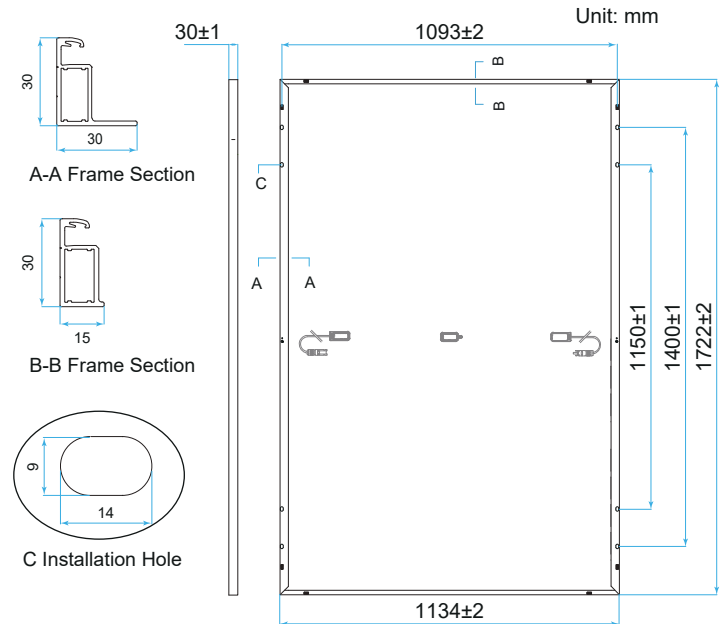
### Mechanical Characteristics

Solar Cell	Mono PERC 182 mm
No. of Cells	108 (6 × 18)
Dimensions	1722 × 1134 × 30mm
Weight	21.7kg ± 5%
Cable Cross Section Size	4mm <sup>2</sup> (IEC)
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	(-/+ )1200mm or customized
Connector	QC4.10 or customized
Front/Back Glass	3.2mm AR Tempered glass
Container	36 pcs/Pallet, 936 pcs/40' HC

### Operating Parameters

Max. System Voltage	DC 1500V (IEC)
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	25A
Front Static Load(snow,wind)	5400Pa
Back Static Load(wind)	2400Pa
Fire Resistance	IEC Class C

### Engineering Drawing



### Electrical Characteristics - STC

Irradiance 1000 W/m<sup>2</sup>, ambient temperature 25 °C, AM1.5.

Maximum Power at STC (Pmax/W)	415	410	405	400	395
Power Tolerance (W)	0 ~ +5				
Optimum Operating Voltage (Vmp/V)	31.61	31.45	31.21	31.01	30.84
Optimum Operating Current (Imp/A)	13.13	13.04	12.98	12.90	12.81
Open Circuit Voltage (Voc/V)	37.45	37.32	37.23	37.07	36.98
Short Circuit Current (Isc/A)	14.02	13.95	13.87	13.79	13.70
Module Efficiency	21.3%	21.0%	20.7%	20.5%	20.2%

### Electrical Characteristics - NMOT

Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM1.5, wind speed 1 m/s.

Maximum Power at NMOT (Pmax/W)	313.9	310.2	306.4	302.5	298.8
Optimum Operating Voltage (Vmp/V)	29.98	29.82	29.60	29.41	29.25
Optimum Operating Current (Imp/A)	10.47	10.40	10.35	10.29	10.22
Open Circuit Voltage (Voc/V)	35.51	35.39	35.31	35.15	35.07
Short Circuit Current (Isc/A)	11.31	11.25	11.19	11.13	11.05

### Temperature Characteristics

Nominal Module Operating Temperature	42 ± 2 °C
Nominal Cell Operating Temperature	45 ± 2 °C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	0.050%/°C

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

