

410~  
415W

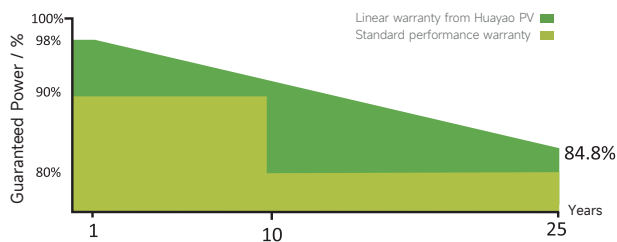
**HY410~415-M108BSS**



Silver or black frame applied

## LINEAR PERFORMANCE WARRANTY

- 15** Year Product Warranty
- 25** Year Linear Power Warranty



## Hyper M54

Mono-facial  
108-cell, MBB  
±3% power tolerance

## KEY FEATURES



### Mbb half cell design

Half-cut cells bring lower cell connection loss and lower thermal coefficients to ensure higher power output



### More Power

Innovative 182mm big cell applied to ensure module power up to 415 Wp



### High Reliability

Strict outsourcing BOM materials quality control and 100% in-house wafer and cell applied to module production



### Excellent Low-light Performance

Advanced solar cell surface texturing technology allows for excellent performance in low-light environments



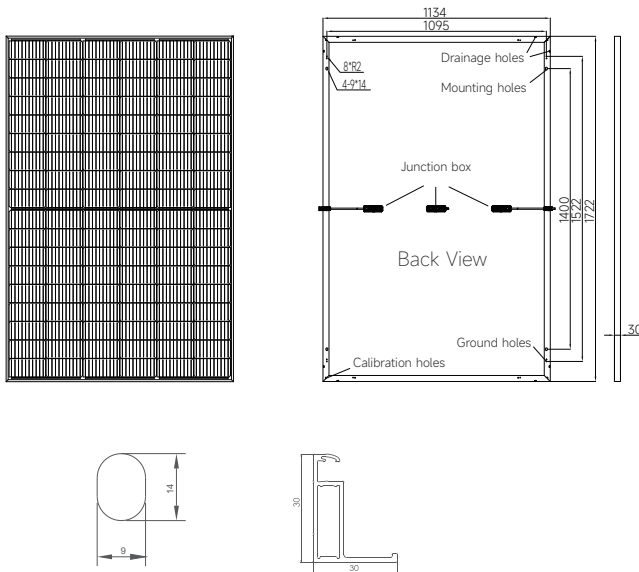
### Highly Strengthened Design

Certified to withstand: 5400Pa snow load and 2400Pa wind load

IEC 61215 (2016), IEC 61730 (2016)



## Engineering Drawings



## Electrical Characteristics

	HY410-M108BSS	HY415-M108BSS
P <sub>max</sub> (W)	410	415
V <sub>mp</sub> (V)	31.75	31.98
I <sub>mp</sub> (A)	12.92	12.98
V <sub>oc</sub> (V)	37.59	37.83
I <sub>sc</sub> (A)	13.65	13.71
Module efficiency(%)	20.99	21.25
Maximum system voltage(V)	1500	
Fuse Rating(A)	25	
Temperature coefficient P <sub>max</sub> (%/°C)	-0.350	
Temperature coefficient I <sub>sc</sub> (%/°C)	0.05	
Temperature coefficient V <sub>oc</sub> (%/°C)	-0.275	

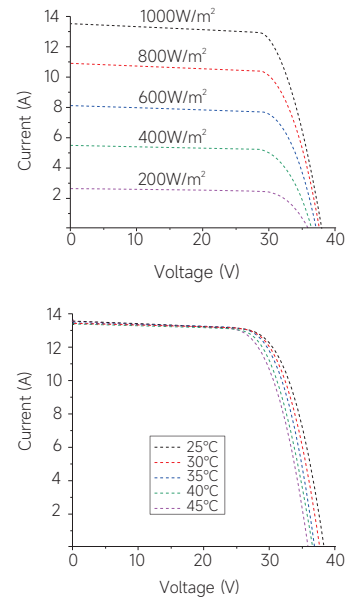
STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## Working Characteristics

	HY410-M108BSS	HY415-M108BSS
P <sub>max</sub> (W)	311	315
V <sub>mp</sub> (V)	29.41	29.64
I <sub>mp</sub> (A)	10.56	10.61
V <sub>oc</sub> (V)	35.55	35.78
I <sub>sc</sub> (A)	11.10	11.15
Power tolerance(%)	±3	
NOCT(°C)	44	

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

## I-V Curves



## Mechanical Characteristics

Number of cells	108 pcs
Size of cell (mm)	182*91
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	1722*1134*30
Weight (kg)	20.2
Cables/connectors	4mm <sup>2</sup> , Genuine MC4-EVO
Length of Cable	Portrait: +300mm/ -300mm

## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1790*1140*1275
Weight of packing (kg)	772
Pieces per container	936
Size of container	40' HQ

## Maximum Ratings

Fire Rating	Class C (IEC 61730)
Operating Temperature(°C)	-40~85
Operating humidity(°C)	5-85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

