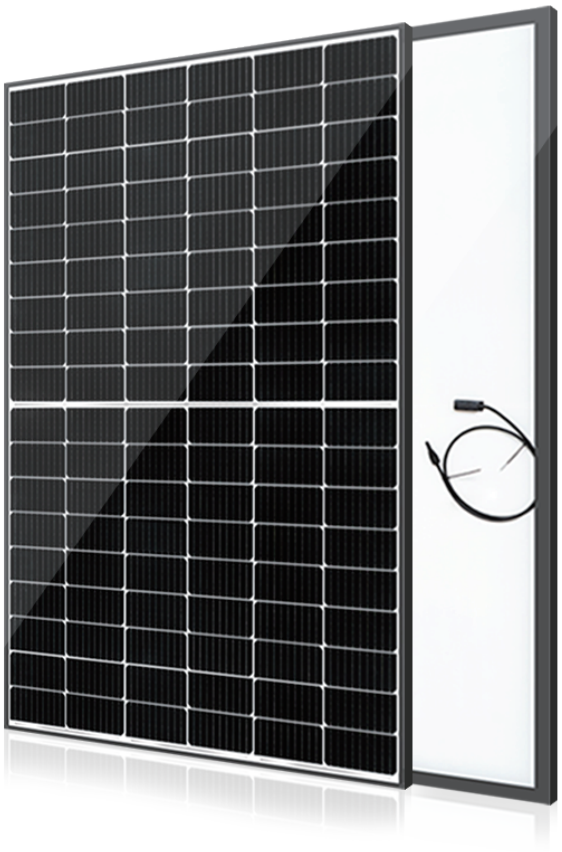
HuaYaoPV

# Hyper M54

390~410W **HY410-M108BSS**

Mono-facial
108-cell, MBB
0~+3% positive tolerance



Silver or black frame applied

## KEY FEATURES

**Mbb half cell design**
Half-cut cells brings lower cell connection loss and lower thermal coefficients to ensures higher power output

**More Power**
Innovative 182mm big cell applied to ensure module power up to 410 Wp

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

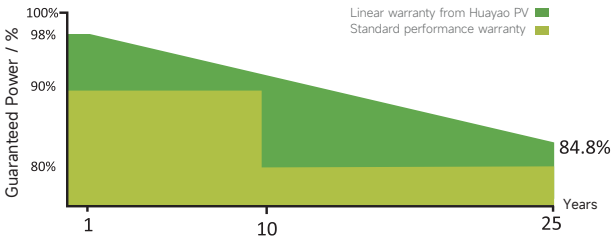
**Excellent Low-light Performance**
Advanced solar cell surface texturing technology allows for excellentperformance in low-light environments

**Highly Strengthened Design**
Certified to withstand:5400Pa snow load and 2400Pa wind load

**PID Resistant**
Excellent PID resistance performance optimized by unique cell process design and BOM material control

## LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty
25 Year Linear Power Warranty

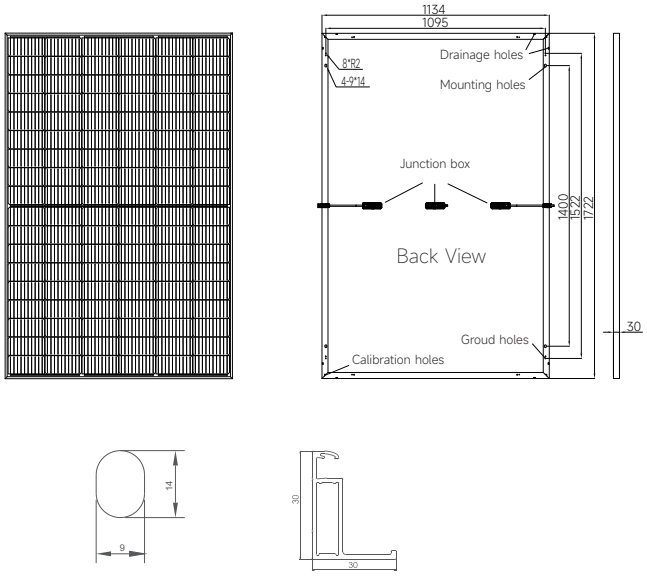



IEC 61215 (2016), IEC 61730 (2016)

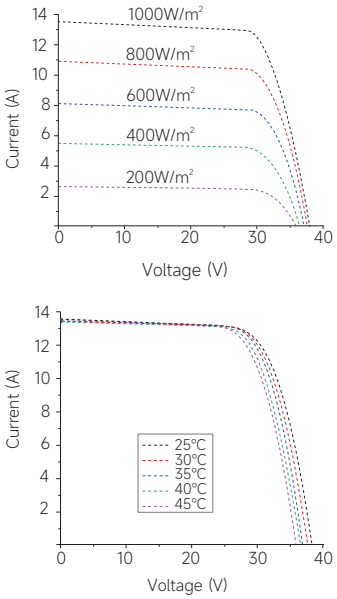
# HY410-M108BSS

Hyper M54

## Engineering Drawings




## I-V Curves







## Electrical Characteristics

| | HY390-M108BSS | HY395-M108BSS | HY400-M108BSS | HY405-M108BSS | HY410-M108BSS |
|---|---|---|---|---|---|
| Pmax(W) | 390 | 395 | 400 | 405 | 410 |
| Vmp(V) | 30.75 | 31.00 | 31.25 | 31.50 | 31.75 |
| Imp(A) | 12.68 | 12.74 | 12.8 | 12.86 | 12.92 |
| Voc (V) | 36.63 | 36.87 | 37.11 | 37.35 | 37.59 |
| Isc(A) | 13.41 | 13.47 | 13.53 | 13.59 | 13.65 |
| Module efficiency(%) | 19.97 | 20.22 | 20.48 | 20.74 | 20.99 |
| Maximum system voltage(V) | | | 1500 | | |
| Fuse Rating(A) | | | 25 | | |
| Temperature coefficient Pmax(%°C) | | | -0.350 | | |
| Temperature coefficient Isc(%°C) | | | 0.05 | | |
| Temperature coefficient Voc(%°C) | | | -0.275 | | |

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

## 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 | 4mm², MC4 compatible |
| Length of Cabel | Portrait: +300mm/ -300mm |

## Working Characteristics

| | HY390-M108BSS | HY395-M108BSS | HY400-M108BSS | HY405-M108BSS | HY410-M108BSS |
|---|---|---|---|---|---|
| Pmax(W) | 295 | 299 | 303 | 307 | 311 |
| Vmp(V) | 28.49 | 28.72 | 28.95 | 29.18 | 29.41 |
| Imp(A) | 10.36 | 10.41 | 10.46 | 10.51 | 10.56 |
| Voc(V) | 34.64 | 34.87 | 35.09 | 35.32 | 35.55 |
| Isc(A) | 10.91 | 10.96 | 11.01 | 11.05 | 11.10 |
| Power tolerance(%) | | | 0~+3 | | |
| NOCT(°C) | | | 44 | | |

NOCT: Conditions:Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

## 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

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

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