

**S4A410-108MH10BB**

**410W**

108 Half-cut  
10BB Mono Perc  
Black Back Sheet



**385W-410W**



America's Solution for  
Quality, Performance,  
and Reliability.

Our products are manufactured locally in the US,  
under the highest quality standards.



**10BB Half-Cut Cell Technology**

Efficient circuit design, lower internal current, lower RS loss, GA doped wafer



**Significantly Lower Risk of Hot Spot**

Special circuit design with much lower hot spot temperature



**Lower LCOE**

2% more power generation

MODULE EFFICIENCY

**21%**

HIGH POWER OUTPUT

**410W**

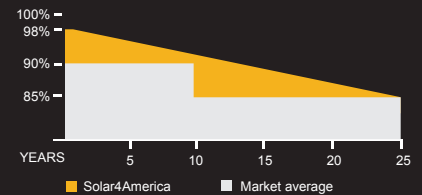


UL61730



Linear Power  
**WARRANTY**

0.55% year 2-25  
Annual Degradation



Solar4America Technology Inc. is headquartered and has module production facilities in Sacramento, California. Our S4A branded product line offers high quality, exceptional performance, and great value to our customers. Our state-of-the-art manufacturing facility uses industry-leading automated production equipment to optimize product performance and quality.

**Solar4America Technology Inc.**

4803 Urbani Ave, McClellan Park, CA 95652, USA  
916-671-5606

\*Subject to warranty terms and conditions

www.solar4america.com  
PVsales@solar4america.com

# S4A410-108MH10BB

108 Half-cut Cell | 10BB Mono Perc | Black Back Sheet

Rev. 03/20/2023

## ELECTRICAL PARAMETERS

| Module Type                      | S4A385 |       | S4A390 |       | S4A395 |       | S4A400 |       | S4A405 |       | S4A410 |       |
|----------------------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|                                  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  | STC    | NMOT  |
| Testing Condition                |        |       |        |       |        |       |        |       |        |       |        |       |
| Maximum Power - Pmax (W)         | 385    | 287   | 390    | 291   | 395    | 294   | 400    | 298   | 405    | 302   | 410    | 306   |
| Maximum Power Voltage - Vmpp (V) | 30.45  | 28.4  | 30.65  | 28.6  | 30.85  | 28.8  | 31.05  | 29.0  | 31.24  | 29.2  | 31.43  | 29.3  |
| Maximum Power Current - Imp (A)  | 12.65  | 10.1  | 12.73  | 10.18 | 12.81  | 10.23 | 12.89  | 10.30 | 12.97  | 10.36 | 13.05  | 10.42 |
| Open Circuit Voltage - Voc (V)   | 36.25  | 34.2  | 36.50  | 34.4  | 36.75  | 34.6  | 37.00  | 34.8  | 37.25  | 35.1  | 37.50  | 35.3  |
| Short Circuit Current - Isc (A)  | 13.53  | 10.89 | 13.61  | 10.97 | 13.69  | 11.04 | 13.78  | 11.11 | 13.86  | 11.17 | 13.94  | 11.24 |
| Module Efficiency                | 19.7%  |       | 20.0%  |       | 20.2%  |       | 20.5%  |       | 20.7%  |       | 21%    |       |

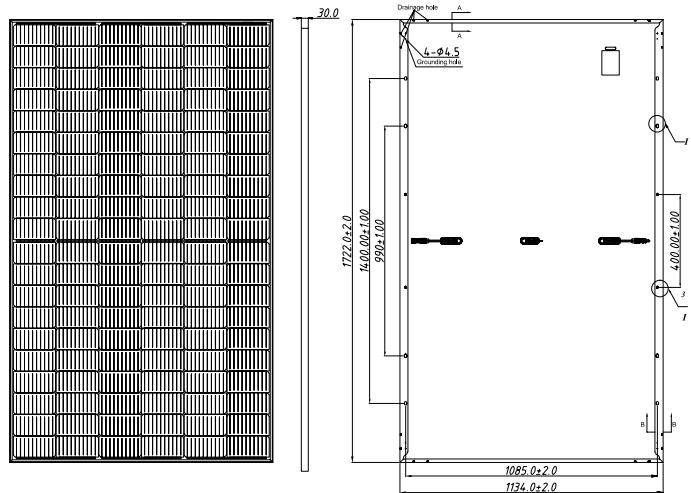
STC: irradiance 1,000 W/m<sup>2</sup>; Spectra at AM 1.5; module temperature 25°C. Power output tolerance: 0~+5W. Measuring tolerance of power: ±3%  
 NMOT: irradiance 800 W/m<sup>2</sup>; Spectra at AM 1.5; Cell temperature 45°C; Ambient temperature 20°C. Wind speed 1m/s

## TEMPERATURE CHARACTERISTICS

|                                 |             |
|---------------------------------|-------------|
| NMOT                            | 43°C (±2°C) |
| Temperature Coefficient of Pmax | -0.35%/°C   |
| Temperature Coefficient of Isc  | +0.048%/°C  |
| Temperature Coefficient of Voc  | -0.26%/°C   |

## MATERIAL CHARACTERISTICS

|                   |   |
|-------------------|---|
| Dimensions        | 67.8 x 44.65 x 1.18in (1722 x 1134 x 30mm)                              |
| Weight            | 46.3lbs (21kg)  |
| Frame             | Black anodized aluminum alloy   |
| Glass             | 3.2mm anti-reflective coated tempered glass                             |
| Back Sheet        | Black   |
| Solar Cells       | 108(6 x 18) monocrystalline 182 x 91mm                                  |
| Junction Box      | IP68, 3 bypass diodes   |
| Cable & Connector | Length 55.12in (1400mm),<br>1x4mm <sup>2</sup> / MC4 and MC4 Compatible |



## MAXIMUM RATINGS

|                            |      |
|----------------------------|------|
| Maximum System Voltage (V) | 1500 |
| Series Fuse Rating (A)     | 25   |

## PACKAGING

|                      |  |
|----------------------|--|
| Pallet Dimensions    | 70.08 x 45.67 x 49.61in (1780 x 1160 x 1260mm) |
| Pallet Quantity      | 36 Modules                                     |
| Truck (53') Quantity | 936 Modules                                    |

## SYSTEM DESIGN

|                         |                |
|-------------------------|----------------|
| Temperature Range       | -40°C to +85°C |
| Mechanical Load Front   | 5,400 Pa       |
| Mechanical Load Back    | 2,400 Pa       |
| Safety Protection Class | Class II       |
| Module Fire Performance | Type 1         |

