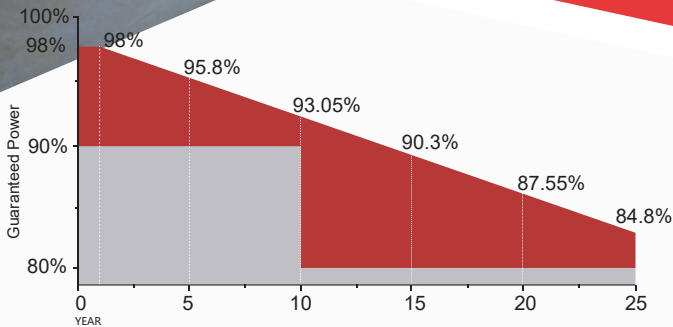
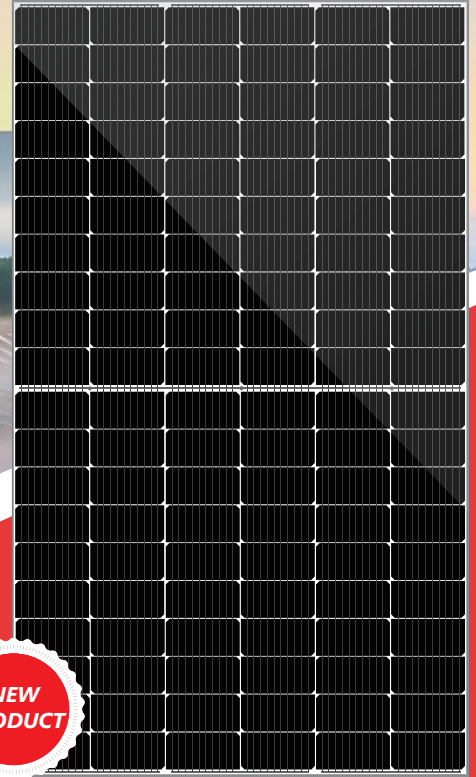


# ASM 120HC

High Performance Mono Perc Module

## 370-395<sub>w</sub>



12-year product warranty



30-year linear power output warranty

## Key Features



### Multi Busbar Technology

Better light trapping and current collection to improve module power output and reliability.



### Anti PID

Ensured PID resistance through the quality control of cell manufacturing process and raw materials.



### Reduced Hot Spot Loss

Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

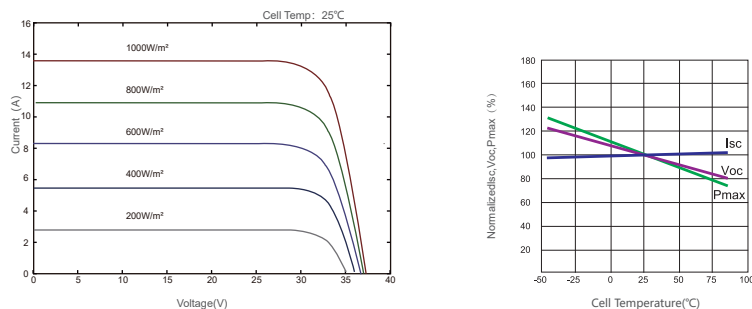


## Electrical characteristics

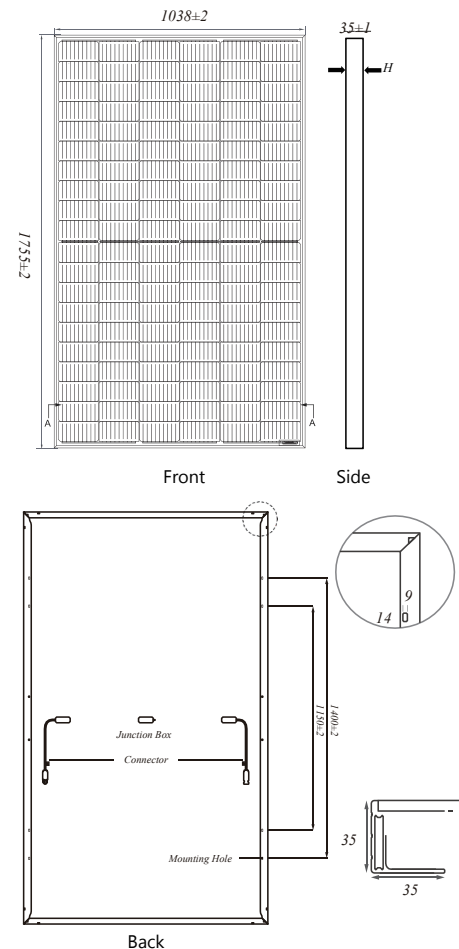
| Module Type                               | 370W       |        | 375W   |        | 380W   |        | 385W   |        | 390W   |        | 395W   |        |
|-------------------------------------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                           | STC        | NOCT   | STC    | NOCT   | STC    | NOCT   | STC    | NOCT   | STC    | NOCT   | STC    | NOCT   |
| Maximum Power At STC(Pmax)                | 370W       | 280W   | 375W   | 284W   | 380W   | 287W   | 385W   | 291W   | 390W   | 295W   | 395W   | 298.5W |
| Short Circuit Current(Isc)                | 11.35A     | 9.20A  | 11.41A | 9.25A  | 11.47A | 9.30A  | 11.53A | 9.35A  | 11.58A | 9.40A  | 11.63A | 9.45A  |
| Open Circuit Voltage(Voc)                 | 41.30V     | 38.65V | 41.45V | 38.89V | 41.62V | 39.14V | 41.78V | 39.37V | 41.94V | 39.63V | 42.10V | 39.87V |
| Maximum Power Current(Imp)                | 10.81A     | 8.66A  | 10.87A | 8.71A  | 10.93A | 8.78A  | 10.99A | 8.83A  | 11.04A | 8.88A  | 11.09A | 8.93A  |
| Maximum Power Voltage(Vmpp)               | 34.23V     | 32.30V | 34.50V | 32.55V | 34.77V | 32.72V | 35.04V | 32.96V | 35.33V | 33.20V | 35.62V | 33.44V |
| Module Efficiency                         | 20.28%     |        | 20.55% |        | 20.83% |        | 21.10% |        | 21.38% |        | 21.65% |        |
| Power Tolerance                           | 0~+5W      |        | 0~+5W  |        | 0~+5W  |        | 0~+5W  |        | 0~+5W  |        | 0~+5W  |        |
| Maximum System Voltage                    | VDC 1500V  |        |        |        |        |        |        |        |        |        |        |        |
| Maximum Series Fuse                       | 20A        |        |        |        |        |        |        |        |        |        |        |        |
| Increased Snowload Acc.to Iec 61215       | 5400Pa     |        |        |        |        |        |        |        |        |        |        |        |
| Operating Temperature                     | -40~+85°C  |        |        |        |        |        |        |        |        |        |        |        |
| Number Of Bypass Diodes                   | 3          |        |        |        |        |        |        |        |        |        |        |        |
| Norminal Operating Cell Temperature(Noct) | 45°C±2°C   |        |        |        |        |        |        |        |        |        |        |        |
| Temperature Coefficient Of Pmax           | -0.350%/°C |        |        |        |        |        |        |        |        |        |        |        |
| Temperature Coefficient Of Voc            | -0.272%/°C |        |        |        |        |        |        |        |        |        |        |        |
| Temperature Coefficient Of Isc            | 0.044%/°C  |        |        |        |        |        |        |        |        |        |        |        |

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, wind speed 1m/s.

## I-V Curve



## Design



## The structural characteristics

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Cell Type         | Mono 166x83mm                                         |
| Number Of Cells   | 120 (6x20)                                            |
| Dimensions(AxBxC) | 1755*1038*35mm                                        |
| Weights           | 20.5kg                                                |
| Glass             | 3.2mm Tempered Low Iron Glass                         |
| Aluminium Frame   | Anodised Aluminium                                    |
| Junction Box      | Split Junction Box (IP68, three diode)                |
| Connector         | Mc4 Compatible                                        |
| Output Cables     | 4.0mm <sup>2</sup> , +300mm, -300mm Customized Length |

## Operating Parameters

|                       |        |
|-----------------------|--------|
| Container             | 40' HQ |
| Pieces Per Pallet     | 31     |
| Pallets Per Container | 17     |
| Pieces Per Container  | 858    |