



# ESPHSC

## Monocrystalline Half-Cut Solar Module

### KEY FEATURES



**MBB Half-Cut Solar Cell:**  
120 cells (6X20); 9 busbar solar cell.



**Higher Module Conversion Efficiency:**  
Higher module output up to 380W with module efficiency up to 20.85%.



**Low-light Performance:**  
Advanced glass and surface texturing allow for excellent performance in low-light environments.



**Light-weight design**  
Light-weight design using transparent backsheets for easy installation and low BOS cost.



**Higher Power Output**  
Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.

166



WATTS  
POSITIVE  
TOLERANCE



YEARS  
PRODUCT  
WARRANTY



YEARS LINEAR  
POWER WARRANTY



## MONOCRYSTALLINE, 60-CELL HALF-CUT SERIES

### ELECTRICAL PERFORMANCE

|   |  |        |        |        |        |        |      |   |      |   |      |
|---|--|--------|--------|--------|--------|--------|------|---|------|---|------|
| Module type: ESPHSC                               | 355M   | /      | 360M   | /      | 365M   | /      | 370M | / | 375M | / | 380M |
| Maximum Power(Wp)                                 | 355W   | 360W   | 365W   | 370W   | 375W   | 380W   |      |   |      |   |      |
| Open circuit Voltage(Voc)                         | 40.30V   | 40.50V | 40.70V | 40.90V | 41.10V | 41.30V |      |   |      |   |      |
| Short circuit Current(Isc)                        | 11.25A   | 11.35A | 11.43A | 11.52A | 11.60A | 11.69A |      |   |      |   |      |
| Maximum Power Voltage(Vm)                         | 33.80V   | 34.00V | 34.20V | 34.40V | 34.60V | 34.80V |      |   |      |   |      |
| Maximum Power Current(Im)                         | 10.51A   | 10.59A | 10.68A | 10.75A | 10.84A | 10.92A |      |   |      |   |      |
| Module efficiency                                 | 19.48%   | 19.76% | 20.03% | 20.31% | 20.58% | 20.85% |      |   |      |   |      |
| Maximum Series Fuse                               | 20A  |        |        |        |        |        |      |   |      |   |      |
| Watts positive tolerance                          | 0~+5%  |        |        |        |        |        |      |   |      |   |      |
| Number of Diode                                   | 3  |        |        |        |        |        |      |   |      |   |      |
| Standard Test Conditions                          | 1000W/M <sup>2</sup> ,25°C,AM1.5                         |        |        |        |        |        |      |   |      |   |      |
| Maximum System Voltage                            | 1000/1500V/DC  |        |        |        |        |        |      |   |      |   |      |
| Temperature-Coefficient Isc                       | +0.049%/°C   |        |        |        |        |        |      |   |      |   |      |
| Temperature-Coefficient Voc                       | -0.271%/°C   |        |        |        |        |        |      |   |      |   |      |
| Temperature-Coefficient Pmpp                      | -0.352%/°C   |        |        |        |        |        |      |   |      |   |      |
| Normal Operating Cell Temperature                 | -40°C...+85°C  |        |        |        |        |        |      |   |      |   |      |
| Load Capacity for the cover of the module (glass) | 5400Pa(IEC61215)(snow)                                   |        |        |        |        |        |      |   |      |   |      |
| Load Capacity for the front & back of the module  | 2400Pa(IEC61215)(wind)                                   |        |        |        |        |        |      |   |      |   |      |
| Product Certificate                               | TUV(IEC 61215,IEC 61730),CE, ROHS,PID Resisitant,INMETRO |        |        |        |        |        |      |   |      |   |      |
| Company Certificate                               | ISO9001,ISO14001,ISO18001                                |        |        |        |        |        |      |   |      |   |      |

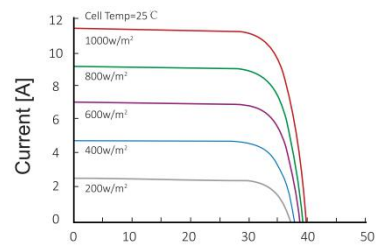
### MECHANICAL CHARACTERISTICS

|   |  |
|---|--|
| Front cover (material / thickness)      | low-iron tempered glass / 3.2mm  |
| Backsheet (color)                       | TPT in white   |
| Cell (quantity / material / dimensions) | 120(6x20) / monocrystalline silicon  |
| Frame (material / color)                | aluminum hollow-chamber frame on each side<br>anodized aluminum alloy / silver |
| Junction box (protection degree)        | ≥IP68  |
| Cables & Plug connectors                | 4mm <sup>2</sup> , 300mm in length,length can be customized                    |
| Module Dimensions (L / W / H)           | 1755x1038x35mm   |
| Module Weight                           | 20kg   |
| Application class                       | Class A  |
| Electrical protection class             | Class II   |
| Fire safety class                       | Class C  |

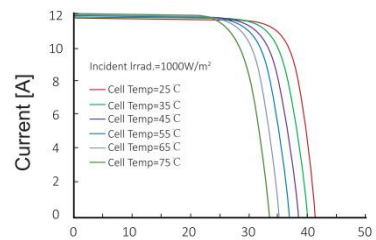
### PACKING

| Container Size | Units/Pallet (PCS) | Weight/Pallet (KG) | Pallet Measurement (mm) | Units/Container (PCS) |
|----------------|--------------------|--------------------|-------------------------|-----------------------|
| 20GP           | 58(31+27)          | 1190               | 1800x1130x2205          | 348                   |
| 40HQ           | 31                 | 635                | 1800x1130x1170          | 858                   |
|                | 35                 | 715                | 1800x1130x1330          |                       |

### CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m<sup>2</sup>

### MODULE DIAGRAM:

