

LATEST



### MBB Series

Large Dimension Half Cell Full Black Mono Solar Module

|           |              |
|-----------|--------------|
| SR-M660HL | SR-M660315HL |
|           | SR-M660320HL |
|           | SR-M660325HL |
|           | SR-M660330HL |
| 315~330W  |              |



PID Resistance



Higher Power Output



9 Bus Bar Half Cut Cell With PERC Technology



Strengthened Mechanical Support 5400 Pa Snow Load, 2400 Pa Wind Load

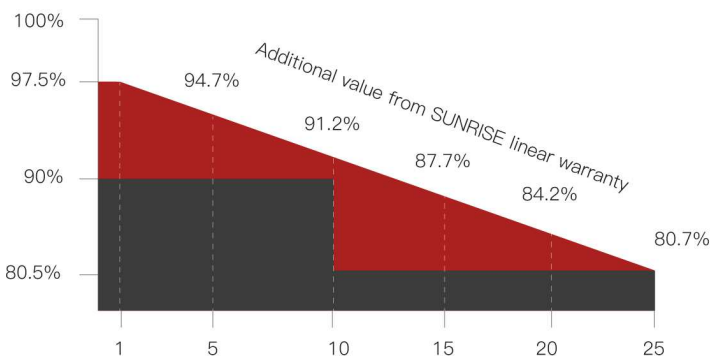


0~3% Positive Tolerance



Combined With The Roof For A Better Visual Appearance

### Warranty



15 year product warranty

■ 25 year linear performance warranty from SUNRISE

■ Standard performance warranty

■ Insured By CHUBB

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# Large Dimension Half Cell(6x20) Mono Solar Module

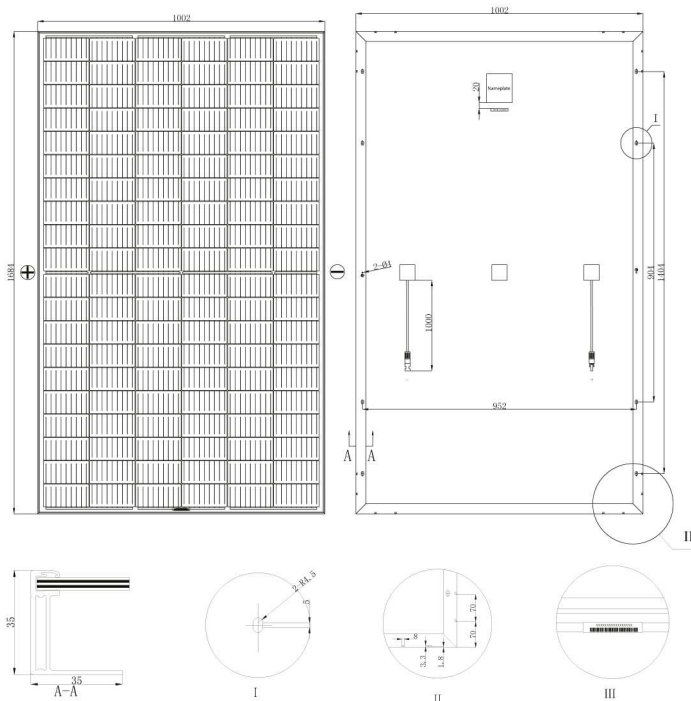


| Module Type                               |         | SR - M660315HL                              |       | SR - M660320HL |       | SR - M660325HL |       | SR - M660330HL |       |
|---|---------|---|-------|----------------|-------|----------------|-------|----------------|-------|
| Test Environment                          |         | STC   | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Tolerance                                 | (%)     | 0~+3  |       | 0~+3           |       | 0~+3           |       | 0~+3           |       |
| Module Efficiency                         | (%)     | 18.67                                       |       | 18.97          |       | 19.27          |       | 19.56          |       |
| Maximum Power                             | Pmax(W) | 315   | 235   | 320            | 239   | 325            | 242   | 330            | 246   |
| Open Circuit Voltage                      | Voc(V)  | 40.76                                       | 37.69 | 40.95          | 37.87 | 41.27          | 38.15 | 41.43          | 38.33 |
| Short Circuit Current                     | Isc(A)  | 9.97  | 8.35  | 10.08          | 8.44  | 10.17          | 8.52  | 10.28          | 8.63  |
| Maximum Power Voltage                     | Vm(V)   | 33.32                                       | 31.33 | 33.53          | 31.53 | 33.74          | 31.72 | 33.93          | 31.91 |
| Maximum Power Current                     | Im(A)   | 9.46  | 7.51  | 9.55           | 7.58  | 9.64           | 7.64  | 9.73           | 7.73  |
| Cell Type                                 | (mm)    | 158.75×79.375(9BB Mono-Crystalline Silicon) |       |                |       |                |       |                |       |
| Number of Cells                           | (Pcs)   | 120(6×20)                                   |       |                |       |                |       |                |       |
| Maximum System Voltage                    | (V)     | DC1000                                      |       |                |       |                |       |                |       |
| Temp. Coeff. of Voc                       | (%/°C)  | -0.282                                      |       |                |       |                |       |                |       |
| Temp. Coeff. of Isc                       | (%/°C)  | 0.041                                       |       |                |       |                |       |                |       |
| Temp. Coeff. of Pm                        | (%/°C)  | -0.387                                      |       |                |       |                |       |                |       |
| Operating Temperature                     | °C      | -40 to 85                                   |       |                |       |                |       |                |       |
| Nominal Operating Cell Temperature (NOCT) | °C      | 45±2  |       |                |       |                |       |                |       |
| Max. Series Fuse                          | (A)     | 15  |       |                |       |                |       |                |       |
| Pressure Bearing                          | (Pa)    | 5400  |       |                |       |                |       |                |       |
| Wind Bearing                              | (Pa)    | 2400  |       |                |       |                |       |                |       |

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind speed 1m/s

## ENGINEERING DRAWINGS

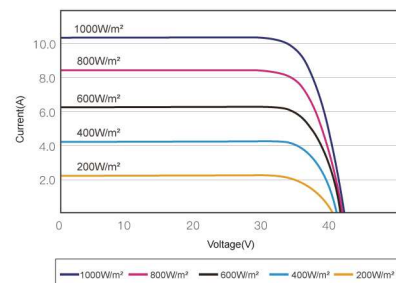


Manufactured in China

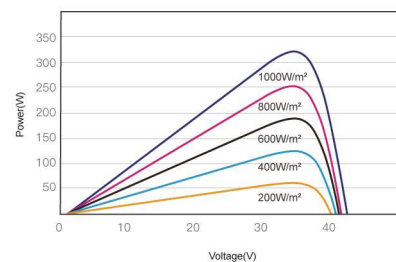
## MATERIAL DETAILS

|                 |   |
|-----------------|---|
| Frame           | Anodized aluminum                       |
| Glass           | 3.2mm low-iron tempered suede glass     |
| Cell            | 6×20pcs 158.75×79.375mm mono solar cell |
| Junction Box    | Rated Current≥15A, Ip≥67, TÜV & UL      |
| Cable&Connector | 4mm <sup>2</sup> , Staubli MC4          |

## IV CURVES



I-V CURVES OF PV MODULE(325W)



P-V CURVES OF PV MODULE(325W)

## PACKING DETAILS

|                  |            |                                |
|------------------|------------|--------------------------------|
| Dimension        | (mm)       | 1684×1002×35                   |
| Weight           | (kg)       | 19.1                           |
| Loading Capacity |            | 348 pcs/20'GP    858 pcs/40'HC |
| Packing          | pcs/pallet | 30                             |