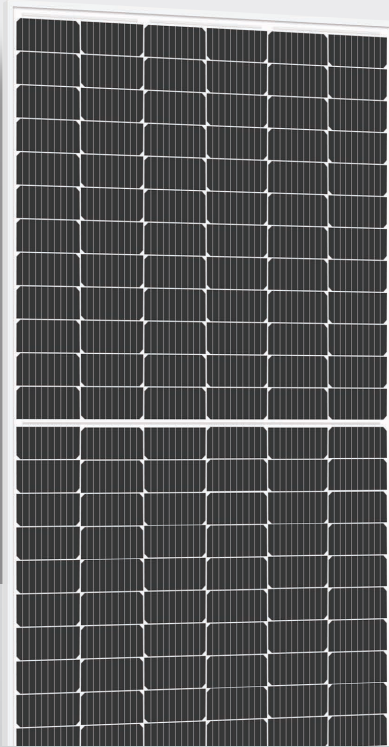




www.fortunes-solar.com



### Half Cell Mono Solar Module

M6/166 Cells Series

430~450W

- FDS-M6M-72-430
- FDS-M6M-72-435
- FDS-M6M-72-440
- FDS-M6M-72-445
- FDS-M6M-72-450

IEC61215/IEC61730

ISO9001:Quality Management System ISO14001:Environmental Management System

ISO45001:Occupational Health and Safety Management System



PID Resistance



Better Low-light Performance



9 Bus Bar Half Cut Cell With PERC Technology



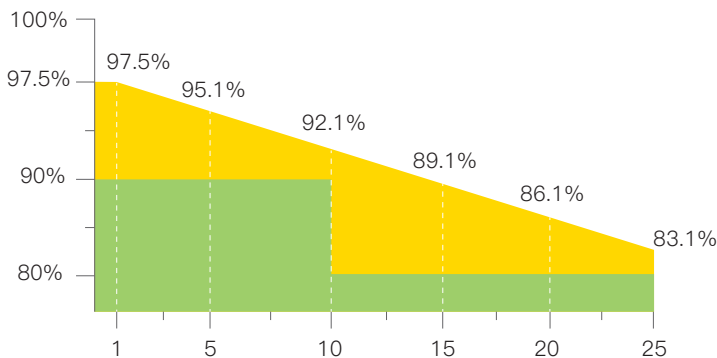
Strengthened Mechanical Support 5400 Pa Snow Load, 2400 Pa Wind Load



0~+5W Positive Tolerance



Higher Power Output



25 year linear performance warranty from FST

Standard performance warranty

Additional value from FST linear warranty

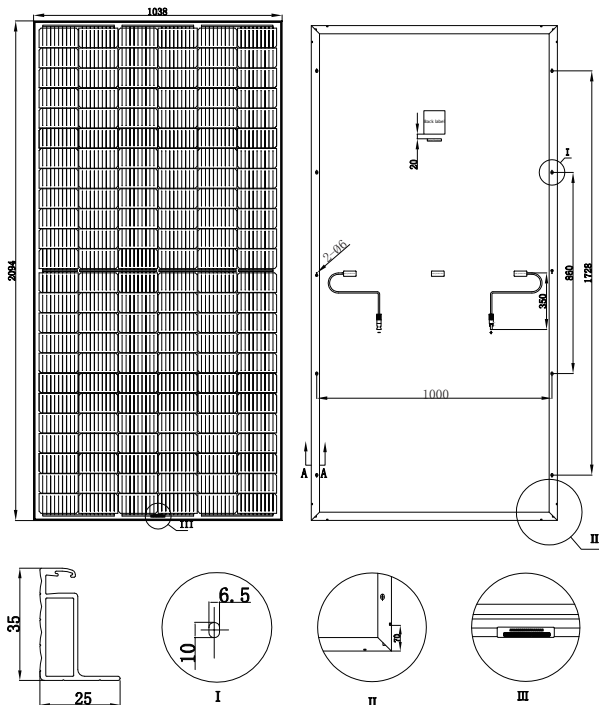
# Half Cell(6x24) Mono Solar Module

| Module Type                               |                      | FDS-M6M-72-430                       |       | FDS-M6M72-435 |       | FDS-M6M-72-440 |       | FDS-M6M-72-440 |       | FDS-M6M-72-450 |       |
|---|----------------------|--------------------------------------|-------|---------------|-------|----------------|-------|----------------|-------|----------------|-------|
| Test Environment                          |                      | STC                                  | NOCT  | STC           | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Tolerance                                 | (W)                  | 0~+5                                 |       |               |       |                |       |                |       |                |       |
| Module Efficiency                         | (%)                  | 19.79                                |       | 20.02         |       | 20.25          |       | 20.48          |       | 20.71          |       |
| Maximum Power                             | P <sub>max</sub> (W) | 430                                  | 318.3 | 435           | 322   | 440            | 325.8 | 445            | 329.5 | 450            | 333.2 |
| Open Circuit Voltage                      | V <sub>oc</sub> (V)  | 49.22                                | 45.88 | 49.42         | 46.08 | 49.62          | 49.28 | 49.86          | 49.52 | 50.1           | 49.76 |
| Short Circuit Current                     | I <sub>sc</sub> (A)  | 11.21                                | 9     | 11.28         | 9.06  | 11.35          | 9.11  | 11.41          | 9.16  | 11.48          | 9.22  |
| Maximum Power Voltage                     | V <sub>m</sub> (V)   | 40.59                                | 37.48 | 40.79         | 37.68 | 40.99          | 37.88 | 41.19          | 38.07 | 41.39          | 38.26 |
| Maximum Power Current                     | I <sub>m</sub> (A)   | 10.6                                 | 8.48  | 10.67         | 8.54  | 10.74          | 8.59  | 10.81          | 8.64  | 10.88          | 8.7   |
| Cell Type                                 | (mm)                 | 166x83(9BB Mono-Crystalline Silicon) |       |               |       |                |       |                |       |                |       |
| Number of Cells                           | (Pcs)                | 144(6×24)                            |       |               |       |                |       |                |       |                |       |
| Maximum System Voltage                    | (V)                  | DC1500                               |       |               |       |                |       |                |       |                |       |
| Temp. Coeff. of Voc                       | (%/°C)               | -0.285                               |       |               |       |                |       |                |       |                |       |
| Temp. Coeff. of Isc                       | (%/°C)               | 0.055                                |       |               |       |                |       |                |       |                |       |
| Temp. Coeff. of P <sub>m</sub>            | (%/°C)               | -0.365                               |       |               |       |                |       |                |       |                |       |
| Operating Temperature                     | °C                   | -40 to 85                            |       |               |       |                |       |                |       |                |       |
| Nominal Operating Cell Temperature (NOCT) | °C                   | 45±2                                 |       |               |       |                |       |                |       |                |       |
| Max. Series Fuse                          | (A)                  | 20                                   |       |               |       |                |       |                |       |                |       |
| 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

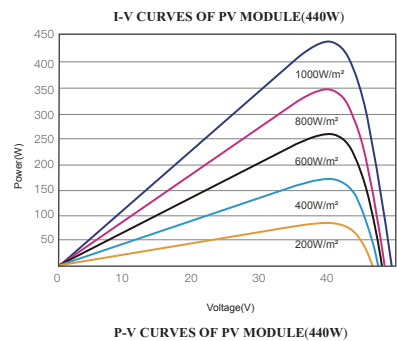
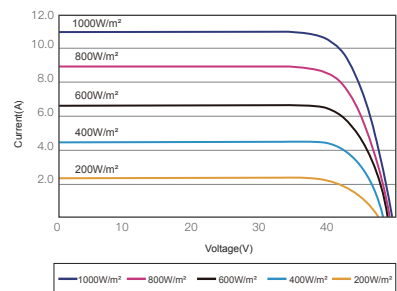


Manufactured in China

## MATERIAL DETAILS

|                 |  |
|-----------------|--|
| Frame           | Anodized aluminum                          |
| Glass           | 3.2mm low-iron tempered suede glass        |
| Cell            | 6×24pcs 166x83mm mono solar cell           |
| Junction Box    | IP ≥ 68, TÜV & UL                          |
| Diode quantity  | 3  |
| Cable&Connector | 4mm <sup>2</sup> , EVO2 or EVO2 compatible |
| Cable length    | 350mm or as customer's requirements        |

## IV CURVES



## PACKING DETAILS

|                  |                 |                 |
|------------------|-----------------|-----------------|
| Dimension        | (mm)            | 2094×1038×35    |
| Weight           | (kg)            | 23.5            |
| Loading Capacity | 300 pcs / 20'GP | 726 pcs / 40'HC |
| Packing          | pcs/pallet      | 31              |