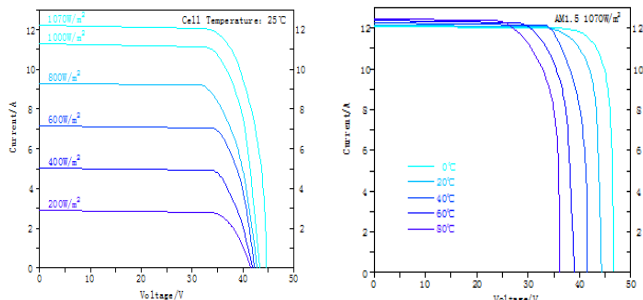
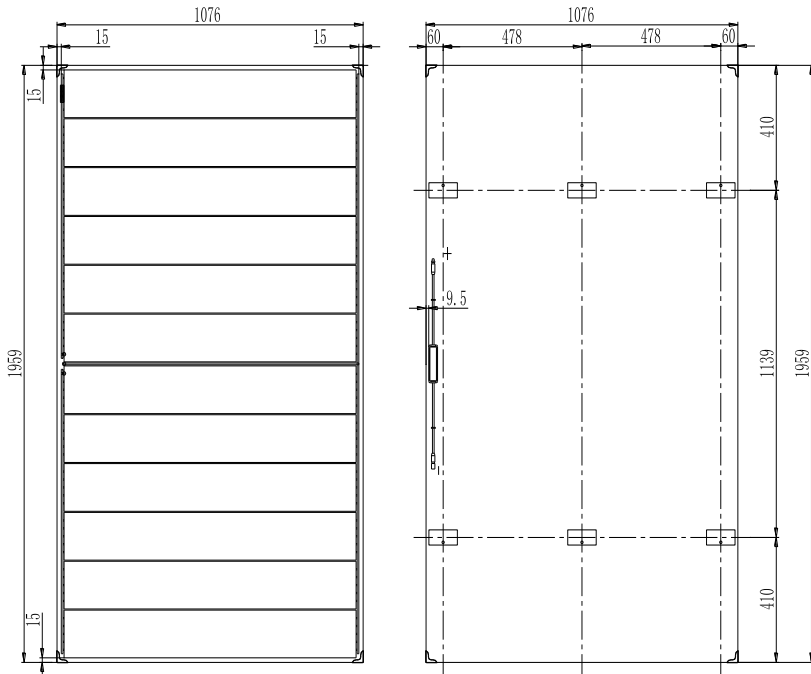


## Specification of TH430PMB5-72SD Monocrystalline PERC shingled solar module-Integrated power

| Electrical Characteristics at Standard Test Conditions(STC)                                                                                                                                                                                                                                                                                                                                                                   |                                                      |       |       |       |       |       | Temperature Characteristics                                                          |                                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|-------|-------|-------|-------|-------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Module Type:TH --- PMB5-72SD                                                                                                                                                                                                                                                                                                                                                                                                  | 440                                                  | 435   | 430   | 425   | 420   | 415   | NMOT                                                                                 | 42.3°C (±2°C)                                                         |
| Maximum Power-Pm [W]                                                                                                                                                                                                                                                                                                                                                                                                          | 440                                                  | 435   | 430   | 425   | 420   | 415   | Temperature Coefficient of Voc                                                       | -0.30%/°C                                                             |
| Open Circuit Voltage-Voc [V]                                                                                                                                                                                                                                                                                                                                                                                                  | 45.7                                                 | 45.6  | 45.5  | 45.4  | 45.3  | 45.2  | Temperature Coefficient of Isc                                                       | 0.05%/°C                                                              |
| Short Circuit Current-Isc [A]                                                                                                                                                                                                                                                                                                                                                                                                 | 12.27                                                | 12.23 | 12.19 | 12.14 | 12.10 | 12.06 | Temperature Coefficient of Pm                                                        | -0.43%/°C                                                             |
| Maximum Power Voltage-Vm [V]                                                                                                                                                                                                                                                                                                                                                                                                  | 37.8                                                 | 37.7  | 37.6  | 37.5  | 37.4  | 37.3  |                                                                                      |                                                                       |
| Maximum Power Current-Im [A]                                                                                                                                                                                                                                                                                                                                                                                                  | 11.64                                                | 11.54 | 11.44 | 11.33 | 11.23 | 11.13 |                                                                                      |                                                                       |
| Module Efficiency-η [%]                                                                                                                                                                                                                                                                                                                                                                                                       | 20.9                                                 | 20.6  | 20.4  | 20.2  | 19.9  | 19.7  |                                                                                      |                                                                       |
| Electrical Characteristics at NMOT                                                                                                                                                                                                                                                                                                                                                                                            |                                                      |       |       |       |       |       | Maximum Ratings                                                                      |                                                                       |
| Maximum Power-Pm [W]                                                                                                                                                                                                                                                                                                                                                                                                          | 326                                                  | 322   | 318   | 315   | 311   | 307   | Maximum System Voltage [V]                                                           | DC 1500/1000(IEC); DC 1000(UL)                                        |
| Open Circuit Voltage-Voc [V]                                                                                                                                                                                                                                                                                                                                                                                                  | 43.3                                                 | 43.2  | 43.1  | 43.0  | 42.9  | 42.9  | Series Fuse Rating [A]                                                               | 20                                                                    |
| Short Circuit Current-Isc [A]                                                                                                                                                                                                                                                                                                                                                                                                 | 9.90                                                 | 9.87  | 9.83  | 9.80  | 9.77  | 9.73  | Maximum Surface Load Capacity [Pa]                                                   | 5,400                                                                 |
| Maximum Power Voltage-Vm [V]                                                                                                                                                                                                                                                                                                                                                                                                  | 35.8                                                 | 35.7  | 35.6  | 35.6  | 35.5  | 35.4  | Temperature Range [°C]                                                               | - 40 to + 85                                                          |
| Maximum Power Current-Im [A]                                                                                                                                                                                                                                                                                                                                                                                                  | 9.09                                                 | 9.01  | 8.93  | 8.85  | 8.77  | 8.69  | Withstanding Hail                                                                    | Maximum diameter of 25 mm with impact speed of 23 m·s <sup>-1</sup>   |
| Note: 1. Standard Test Conditions [STC]: irradiance= (1+0.1BiFi) 1000W/m²,BiFi=0.7; AM 1.5; ambient temperature 25°C according to EN 60904-3;<br>2. Nominal Module Operating Temperature (NMOT): Irradiance= (1+0.1BiFi) 800W/m²,BiFi=0.7; wind speed 1m/s , ambient temperature 20°C .<br>3. Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%. Performance deviation of Voc [V], Isc [A], Vm [V] and Im [A]: ±3%. |                                                      |       |       |       |       |       | Other Characteristics                                                                |                                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |       |       |       |       |       | Packaging                                                                            | 30 pcs/box;660pcs/40'container;960pcs/flat car                        |
|                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                      |       |       |       |       |       | Warranty                                                                             | 10 year Product Workmanship Warranty<br>30 year Linear Power Warranty |
| Mechanical Characteristics                                                                                                                                                                                                                                                                                                                                                                                                    |                                                      |       |       |       |       |       | I-V 曲线                                                                               |                                                                       |
| Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                    | 1959×1076×6mm (L×W×H) (except junction box)          |       |       |       |       |       |  |                                                                       |
| Weight                                                                                                                                                                                                                                                                                                                                                                                                                        | 31.0kg                                               |       |       |       |       |       |                                                                                      |                                                                       |
| Front Glass                                                                                                                                                                                                                                                                                                                                                                                                                   | AR coating tempered glass, 2.5mm                     |       |       |       |       |       |                                                                                      |                                                                       |
| Encapsulation                                                                                                                                                                                                                                                                                                                                                                                                                 | POE                                                  |       |       |       |       |       |                                                                                      |                                                                       |
| Cells                                                                                                                                                                                                                                                                                                                                                                                                                         | 6" Bifacial PERC Mono Solar Cells(in increment of 5) |       |       |       |       |       |                                                                                      |                                                                       |
| Back Sheet                                                                                                                                                                                                                                                                                                                                                                                                                    | tempered glass, 2.5mm                                |       |       |       |       |       |                                                                                      |                                                                       |
| Frame                                                                                                                                                                                                                                                                                                                                                                                                                         | No Frame                                             |       |       |       |       |       |                                                                                      |                                                                       |
| Junction Box                                                                                                                                                                                                                                                                                                                                                                                                                  | Rated current:18A, IP67, TUV&UL                      |       |       |       |       |       |                                                                                      |                                                                       |
| Cable                                                                                                                                                                                                                                                                                                                                                                                                                         | Length 1200mm, 1×4mm²                                |       |       |       |       |       |                                                                                      |                                                                       |
| Connector                                                                                                                                                                                                                                                                                                                                                                                                                     | Compatible with MC4                                  |       |       |       |       |       |                                                                                      |                                                                       |
| Drawing                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                      |       |       |       |       |       |                                                                                      |                                                                       |
|                                                                                                                                                                                                                                                                                                                                           |                                                      |       |       |       |       |       |                                                                                      |                                                                       |
| <b>Declaration:</b> With the technical progress and product updates,there exists a deviation between the technical parameter of the TW Solar's future products and the technical parameter in this specification,The TW Solar reserves the right to adjust the technical parameter at any time without notifying the customers, TW Solar reserves the final right of interpretation.                                          |                                                      |       |       |       |       |       |                                                                                      |                                                                       |