



**425~440W**

**M10 solar modules** Aquaman series

Mono SMBB TopCon large size half cut  
double glass module

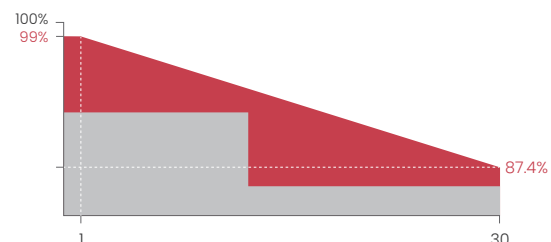
Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for distributed and centralized ground power stations.

**MODULE CHARACTER**

-  Exceptional PID Resistance
-  Salt mist resistance/Ammonia resistance /dust and hail resistance
-  Production process reliability test
-  0~+5W Positive Tolerance
-  Lower LID / LETID
-  Reduce BOS cost increase ROI
-  Non-destructive cutting
-  Double-sided electricity generation

**CERTIFICATION**

IEC61215/IEC61730  
ISO9001:Quality Management System  
ISO14001:Environmental Management System  
ISO45001:Occupational Health and Safety Management System



 Linear performance warranty  Product warranty

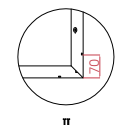
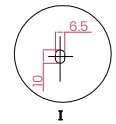
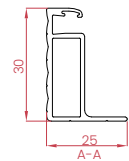
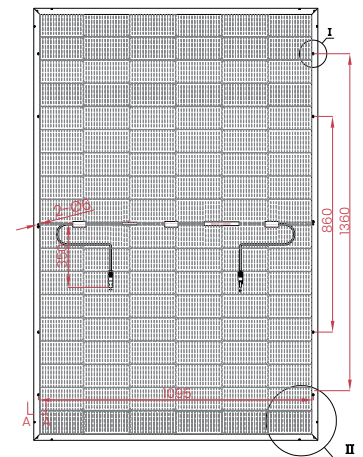
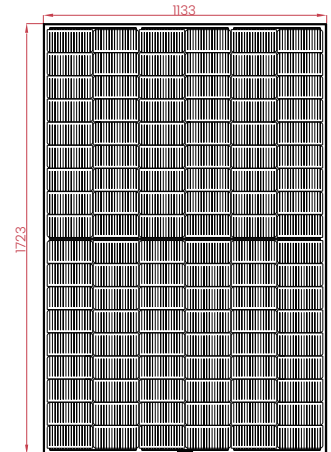
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## ENGINEERING DRAWINGS



| Module Type                                    | SR-54M 425NHLPro |        | SR-54M 430NHLPro |        | SR-54M 435NHLPro |        | SR-54M 440NHLPro |        |
|--|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
|  | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   |
| Module Efficiency (%)                          | 21.78            |        | 22.03            |        | 22.29            |        | 22.54            |        |
| Tolerance (W)                                  | 0~+5             |        | 0~+5             |        | 0~+5             |        | 0~+5             |        |
| Test Environment                               | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   | STC              | NOCT   |
| Maximum Power Pmax(W)                          | 425              | 320.62 | 430              | 324.39 | 435              | 328.16 | 440              | 331.93 |
| Open Circuit Voltage Voc(V)                    | 38.33            | 36.61  | 38.56            | 36.83  | 38.79            | 37.05  | 39.02            | 37.27  |
| Short Circuit Current Isc(A)                   | 14.17            | 11.44  | 14.25            | 11.51  | 14.34            | 11.57  | 14.41            | 11.64  |
| Maximum Power Voltage Vm(V)                    | 31.67            | 29.72  | 31.86            | 29.90  | 32.05            | 30.07  | 32.24            | 30.25  |
| Maximum Power Current Im(A)                    | 13.42            | 10.82  | 13.50            | 10.88  | 13.57            | 10.94  | 13.65            | 11.01  |
| Cell Type (mm)                                 | M10 TopCon       |        |                  |        |                  |        |                  |        |
| Number of Cells (Pcs)                          | 108(6×18)        |        |                  |        |                  |        |                  |        |
| Maximum System Voltage (V)                     | DC1500           |        |                  |        |                  |        |                  |        |
| Temp.Coeff.of Voc (%/°C)                       | -0.249           |        |                  |        |                  |        |                  |        |
| Temp.Coeff.of Isc (%/°C)                       | 0.045            |        |                  |        |                  |        |                  |        |
| Temp.Coeff.of Pm (%/°C)                        | -0.3             |        |                  |        |                  |        |                  |        |
| Operating Temperature (°C)                     | -40 to 85        |        |                  |        |                  |        |                  |        |
| Nominal Operating Cell Temperature (NOCT) (°C) | 45±2             |        |                  |        |                  |        |                  |        |
| Max.Series Fuse (A)                            | 30               |        |                  |        |                  |        |                  |        |
| 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

| Different backside power gains(430W) | 10%   | 15%   | 20%   | 25%   |
|--------------------------------------|-------|-------|-------|-------|
| Peak Power Pmax(W)                   | 473   | 494.5 | 516   | 537.5 |
| Open Circuit Voltage Voc(V)          | 38.57 | 38.59 | 38.60 | 38.61 |
| Short Circuit Current Isc(A)         | 15.68 | 16.39 | 17.10 | 17.80 |
| Maximum Power Voltage Vm(V)          | 31.87 | 31.88 | 31.89 | 31.9  |
| Maximum Power Current Im(A)          | 14.85 | 15.52 | 16.19 | 16.85 |

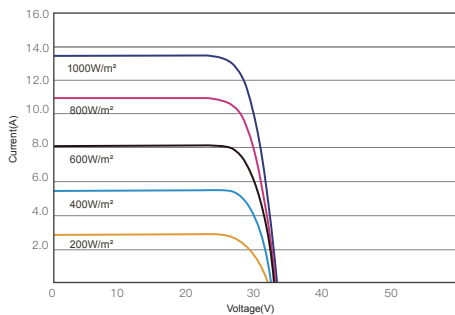
### MATERIAL DETAILS

|       |   |                     |  |
|-------|---|---------------------|--|
| Frame | Anodized aluminum                                       | Cable&Connector     | 4mm <sup>2</sup> , EVO2 or EVO2 compatible |
| Cell  | 6×18pcs mono solar cell                                 | Junction Box        | Ip≥68, TÜV&UL                              |
| Glass | 2×2.0mm Anti-Reflection Coating Heat Strengthened Glass | Net length of Cable | 350mm or as customer's requirements        |

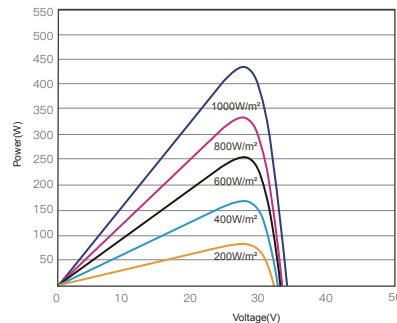
### PACKING DETAILS

|                  |                |         |              |
|------------------|----------------|---------|--------------|
| Dimension        | 1723×1133×30mm | Weight  | 22.8kg       |
| Loading Capacity | 936pcs/40'HC   | Packing | 36pcs/pallet |

### IV CURVES



I-V CURVES OF PV MODULE(435W)



P-V CURVES OF PV MODULE(435W)