




570~595W

M10 solar panels Aquaman series
Mono SMBB TOPCon large size half cut
bifacial solar panel

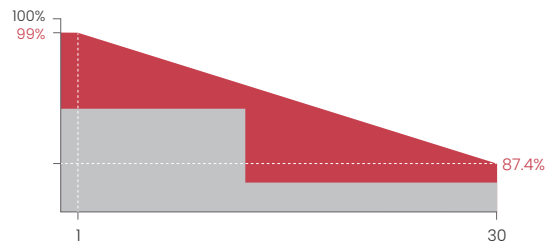
Excellent technical advantages and system design scheme to achieve high reliability, power generation effective gain and EPC cost reduction. Products can match different installation conditions, taking into account high adaptability and high compatibility. With mature support and inverter scheme, customized design for industrial and commercial and centralized ground power stations.

MODULE CHARACTER

-  PID Resistance
-  Salt mist resistance/Ammonia resistance /dust and hail resistance
-  Production process reliability test
-  0~+5W Positive Tolerance
-  **LID** 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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⚠ If any update, Sunrise would not make further notice. Sunrise reserves the right of final interpretation.



| Module Type | SR-66M 570NHLPro | | SR-66M 575NHLPro | | SR-66M 580NHLPro | | SR-66M 585NHLPro | | SR-66M 590NHLPro | | SR-66M 595NHLPro | |
|---|-----------------------|-------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|------------------|--------|
| | Module Efficiency (%) | 22.09 | | 22.28 | | 22.48 | | 22.67 | | 22.86 | | 23.06 |
| Tolerance(W) | 0~+5 | | 0~+5 | | 0~+5 | | 0~+5 | | 0~+5 | | 0~+5 | |
| Test Environment | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power Pmax(W) | 570 | 430 | 575 | 433.77 | 580 | 437.55 | 585 | 441.32 | 590 | 445.09 | 595 | 448.86 |
| Open Circuit Voltage Voc(V) | 48.75 | 46.57 | 48.95 | 46.75 | 49.14 | 46.94 | 49.33 | 47.12 | 49.53 | 47.31 | 49.72 | 47.49 |
| Short Circuit Current Isc(A) | 14.96 | 12.07 | 15.02 | 12.13 | 15.09 | 12.19 | 15.17 | 12.24 | 15.23 | 12.30 | 15.3 | 12.36 |
| Maximum Power Voltage Vm(V) | 40.28 | 37.80 | 40.44 | 37.95 | 40.6 | 38.10 | 40.76 | 38.25 | 40.92 | 38.40 | 41.08 | 38.55 |
| Maximum Power Current Im(A) | 14.16 | 11.42 | 14.22 | 11.47 | 14.29 | 11.52 | 14.36 | 11.58 | 14.42 | 11.63 | 14.49 | 11.68 |
| Cell Type (mm) | M10 TOPCon | | | | | | | | | | | |
| Number of Cells (Pcs) | 132(6×22) | | | | | | | | | | | |
| Maximum System Voltage (V) | DC1500 | | | | | | | | | | | |
| Temp.Coeff.of Voc (%/°C) | -0.26 | | | | | | | | | | | |
| Temp.Coeff.of Isc (%/°C) | 0.046 | | | | | | | | | | | |
| 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/m², Cell temperature 25°C, AM1.5
 NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s

| Different backside power gains(585W) | 10% | 15% | 20% | 25% |
|--------------------------------------|-------|--------|-------|--------|
| Peak Power Pmax(W) | 643.5 | 672.75 | 702 | 731.25 |
| Open Circuit Voltage Voc(V) | 49.35 | 49.36 | 49.37 | 49.38 |
| Short Circuit Current Isc(A) | 16.67 | 17.42 | 18.18 | 18.93 |
| Maximum Power Voltage Vm(V) | 40.77 | 40.78 | 40.79 | 40.80 |
| Maximum Power Current Im(A) | 15.78 | 16.50 | 17.21 | 17.92 |

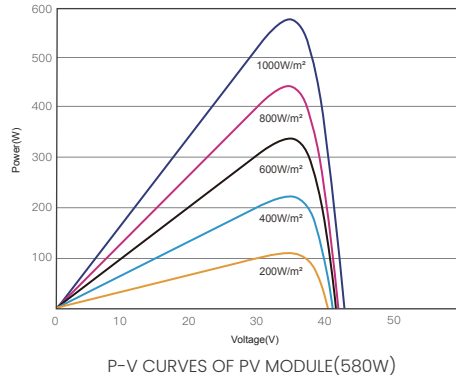
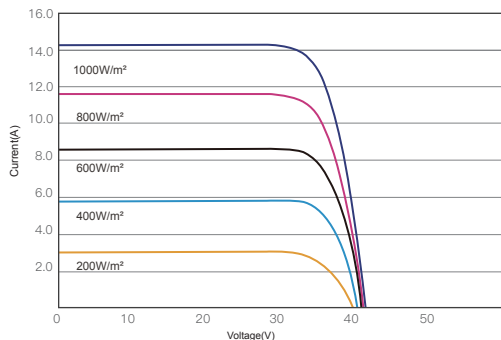
MATERIAL DETAILS

| | | | |
|-------|---|---------------------|--|
| Frame | Anodized aluminum | Cable&Connector | 4mm ² , EVO2 or EVO2 compatible |
| Cell | 6×22pcs mono solar cell | Junction Box | Ip≥68, TÜV&UL |
| Glass | 3.2mm Anti-Reflection Coating Heat Strengthened Glass | Net length of Cable | 350mm or as customer's requirements |

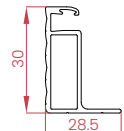
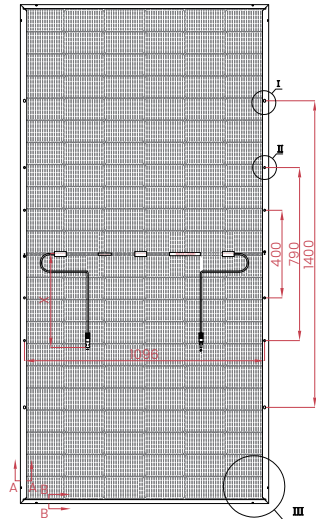
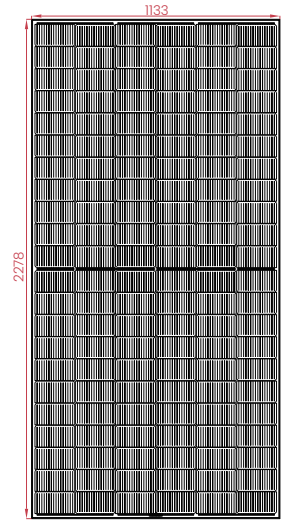
PACKING DETAILS

| | | | |
|------------------|----------------|---------|--------------|
| Dimension | 2278×1133×30mm | Weight | 27.2kg |
| Loading Capacity | 720pcs/40'HC | Packing | 36pcs/pallet |

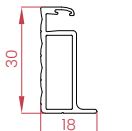
IV CURVES



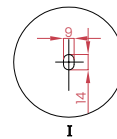
ENGINEERING DRAWINGS



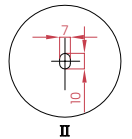
Long side A-A



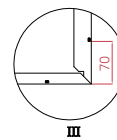
Short side B-B



I



II



III