



Hyper-ion™

Heterojunction Hyper-ion Series Bifacial Module

RSM110-8-580-605BHDG

Hyper-link Interconnection

Patented Technology

580-605 Wp

Power Output Range

23.2%

Higher Efficiency

0~+3%

Positive Power Tolerance



The module picture is for reference only



No B-O caused LID



Ultra-high bifacial factor



Ultra-high power generation, ultra-low carbon emission



Most stable power temperature coefficient



Lead technology of metallization process



Excellent anti-LID & anti-PID performance

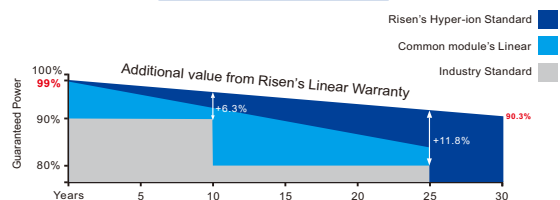


* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

LINEAR PERFORMANCE WARRANTY

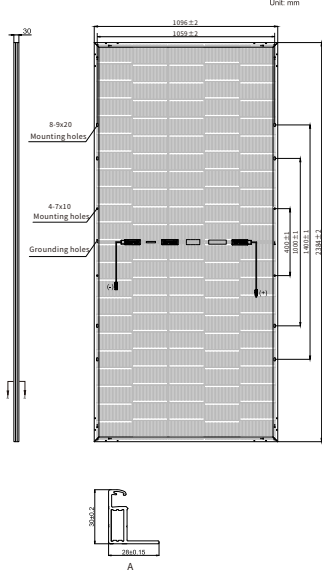
15 years product warranty / 30 years linear power warranty

0.3% Annual Degradation over 30 years



*Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd

Dimensions of PV Module



ELECTRICAL DATA (STC)

| Model Type | RSM110-8-580-605BHDG | | | | | |
|-------------------------------|----------------------|-------|-------|-------|-------|-------|
| Rated Power in Watts-Pmax(Wp) | 580 | 585 | 590 | 595 | 600 | 605 |
| Open Circuit Voltage-Voc(V) | 41.95 | 42.03 | 42.11 | 42.19 | 42.27 | 42.35 |
| Short Circuit Current-Isc(A) | 17.50 | 17.60 | 17.69 | 17.79 | 17.88 | 17.97 |
| Maximum Power Voltage-Vmpp(V) | 34.86 | 34.95 | 35.04 | 35.12 | 35.20 | 35.28 |
| Maximum Power Current-Impp(A) | 16.64 | 16.74 | 16.84 | 16.95 | 17.05 | 17.15 |
| Module Efficiency (%) * | 22.2 | 22.4 | 22.6 | 22.8 | 23.0 | 23.2 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor: 85±10(%) * Module Efficiency (%): Rounding to the nearest number

Electrical characteristics with 10% rear side power gain

| Model Type | RSM110-8-580-605BHDG | | | | | |
|-----------------------------------|----------------------|-------|-------|-------|-------|-------|
| Total Equivalent power -Pmax (Wp) | 638 | 644 | 649 | 655 | 660 | 666 |
| Open Circuit Voltage-Voc(V) | 41.95 | 42.03 | 42.11 | 42.19 | 42.27 | 42.35 |
| Short Circuit Current-Isc(A) | 19.25 | 19.36 | 19.46 | 19.57 | 19.67 | 19.77 |
| Maximum Power Voltage-Vmpp(V) | 34.86 | 34.95 | 35.04 | 35.12 | 35.20 | 35.28 |
| Maximum Power Current-Impp(A) | 18.30 | 18.41 | 18.52 | 18.65 | 18.76 | 18.87 |

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

| Model Type | RSM110-8-580-605BHDG | | | | | |
|--------------------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Power-Pmax (Wp) | 442.6 | 446.4 | 450.2 | 454.2 | 457.9 | 461.6 |
| Open Circuit Voltage-Voc (V) | 39.31 | 39.38 | 39.46 | 39.53 | 39.61 | 39.68 |
| Short Circuit Current-Isc (A) | 14.35 | 14.43 | 14.51 | 14.59 | 14.66 | 14.74 |
| Maximum Power Voltage-Vmpp (V) | 32.59 | 32.68 | 32.76 | 32.84 | 32.91 | 32.99 |
| Maximum Power Current-Impp (A) | 13.58 | 13.66 | 13.74 | 13.83 | 13.91 | 13.99 |

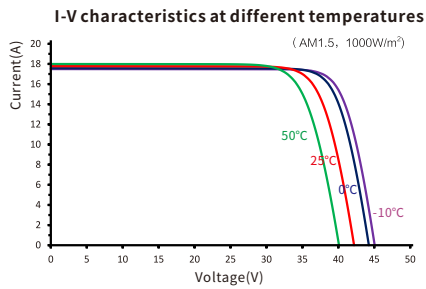
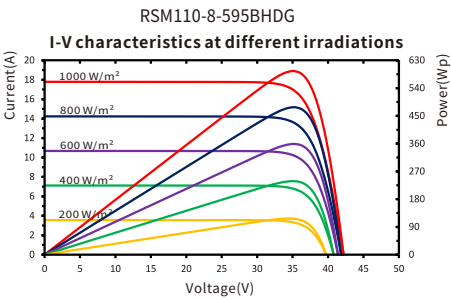
NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

| | |
|--------------------|--|
| Solar cells | n-type HJT |
| Cell configuration | 110 cells (5×11+5×11) |
| Module dimensions | 2384×1096×30mm |
| Weight | 33kg |
| Superstrate | High Transmission, AR Coated Heat Strengthened Glass |
| Substrate | Heat Strengthened Glass |
| Frame | Anodized Aluminium Alloy, Silver Color |
| J-Box | Potted, IP68, 1500VDC, 3 Schottky bypass diodes |
| Cables | 4.0mm ² , Positive(+)350mm, Negative(-)230mm (Connector Included), or customized length |
| Connector | Risen Twinsel PV-SY02, IP68 |

TEMPERATURE & MAXIMUM RATINGS

| | |
|---|-------------|
| Nominal Module Operating Temperature (NMOT) | 43°C±2°C |
| Temperature Coefficient of Voc | -0.22%/°C |
| Temperature Coefficient of Isc | 0.047%/°C |
| Temperature Coefficient of Pmax | -0.24%/°C |
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500VDC |
| Max Series Fuse Rating | 35A |
| Limiting Reverse Current | 35A |



PACKAGING CONFIGURATION

| | 40ft(HQ) |
|--|----------------|
| Number of modules per container | 700 |
| Number of modules per pallet | 35 |
| Number of pallets per container | 20 |
| Packaging box dimensions (LxWxH) in mm | 2395×1075×1235 |
| Box gross weight[kg] | 1200 |



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THE POWER OF RISING VALUE

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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