

n-type TOPCon

HIGH PERFORMANCE DUAL GLASS MODULE

RSM108-10-435-460BNDG


The module picture is for reference only

435-460 _{Wp}

Power Output Range

22.5 %

Maximum Efficiency







0~+3 %

Positive power tolerance

1500 _{VDC}

Maximum System Voltage

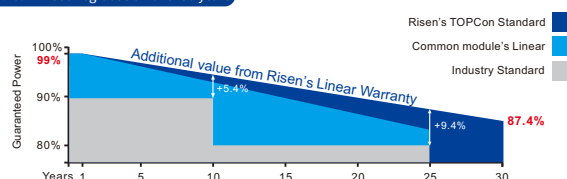
KEY FEATURES

-  Perfect for residential scenario application
-  Excellent power generation
-  Excellent anti-LID & anti-PID performance
-  Excellent temperature coefficient (Pmax): -0.29%/°C
-  Excellent weak-light performance
-  Excellent warranty assurance

LINEAR PERFORMANCE WARRANTY

15 years Product Warranty / 30 years Linear Power Warranty

0.4% Annual Degradation over 30 years

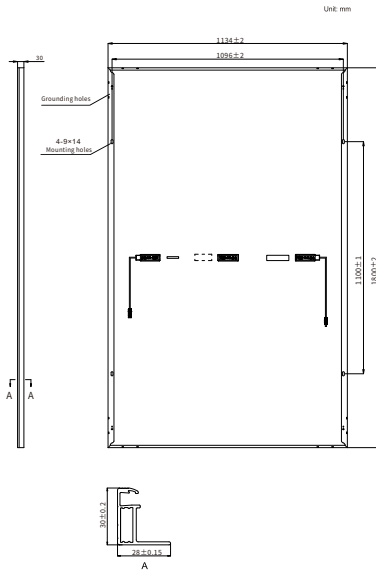


* Please check the valid version of Limited Product Warranty which is officially released by Risen Energy Co., Ltd



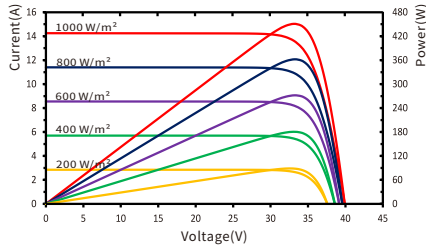
* As there are different certification requirements in different markets, please contact your local Risen Energy sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

Dimensions of PV Module

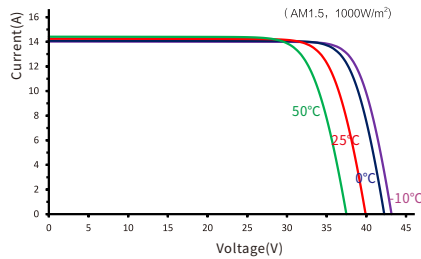


RSM108-10-450BNDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures



PACKAGING CONFIGURATION

| | 40ft(HQ) | 20ft |
|--|----------------|------|
| Number of modules per container | 864 | 216 |
| Number of modules per pallet | 36 | 36 |
| Number of pallets per container | 24 | 6 |
| Packaging box dimensions (LxWxH) in mm | 1820×1110×1260 | |
| Box gross weight[kg] | 950 | |

ELECTRICAL DATA (STC)

| Model Type | RSM108-10-435-460BNDG | | | | | |
|-------------------------------|-----------------------|-------|-------|-------|-------|-------|
| Rated Power in Watts-Pmax(Wp) | 435 | 440 | 445 | 450 | 455 | 460 |
| Open Circuit Voltage-Voc(V) | 39.31 | 39.51 | 39.71 | 39.91 | 40.11 | 40.30 |
| Short Circuit Current-Isc(A) | 14.04 | 14.11 | 14.18 | 14.25 | 14.32 | 14.39 |
| Maximum Power Voltage-Vmpp(V) | 32.45 | 32.66 | 32.87 | 33.08 | 33.29 | 33.49 |
| Maximum Power Current-Impp(A) | 13.41 | 13.48 | 13.55 | 13.63 | 13.69 | 13.76 |
| Module Efficiency (%) ★ | 21.3 | 21.6 | 21.8 | 22.1 | 22.3 | 22.5 |

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

★ Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA (NMOT)

| Model Type | RSM108-10-435-460BNDG | | | | | |
|--------------------------------|-----------------------|-------|-------|-------|-------|-------|
| Maximum Power-Pmax (Wp) | 329.5 | 333.4 | 337.3 | 341.4 | 345.1 | 349.0 |
| Open Circuit Voltage-Voc (V) | 36.56 | 36.74 | 36.93 | 37.12 | 37.30 | 37.48 |
| Short Circuit Current-Isc (A) | 11.51 | 11.57 | 11.63 | 11.69 | 11.74 | 11.80 |
| Maximum Power Voltage-Vmpp (V) | 30.11 | 30.31 | 30.50 | 30.70 | 30.89 | 31.08 |
| Maximum Power Current-Impp (A) | 10.94 | 11.00 | 11.06 | 11.12 | 11.17 | 11.23 |

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

MECHANICAL DATA

| | |
|--------------------|--|
| Solar cells | n-type TOPCon |
| Cell configuration | 108 cells (6×9+6×9) |
| Module dimensions | 1800×1134×30mm |
| Weight | 25kg |
| Superstrate | High Transmission, Low Iron, AR Coated Heat Strengthened Glass |
| Substrate | Heat Strengthened Glass |
| Frame | Anodized Aluminium Alloy, Black |
| J-Box | Potted, IP68, 1500VDC, 3 Schottky by pass diodes |
| Cables | 4.0mm ² , Positive(+)1200mm, Negative(-)1200mm (Connector Included), or customized length |
| Connector | Risen TwinseI PV-SY02, IP68 |

TEMPERATURE & MAXIMUM RATINGS

| | |
|---|-------------|
| Nominal Module Operating Temperature (NMOT) | 44°C±2°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Isc | 0.046%/°C |
| Temperature Coefficient of Pmax | -0.29%/°C |
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500VDC |
| Max Series Fuse Rating | 30A |
| Limiting Reverse Current | 30A |



THE POWER OF RISING VALUE

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

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Version: REM108-BNDG-16BB-EN-H1-1-2024-Black frame