

BIFACIAL MODULE WITH DUAL GLASS

# RS5-480~505MBG-E2

P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.3%

- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
  - Gallium-doped Wafer · Non destructive cutting · MBB half-cut
- Excellent power generation performance
  - Excellent IAM and low irradiation performance · Lower temperature coefficient
  - 0.45% linear Power decline
- High module quality ensures long-term reliability
  - Strict selected material · Advanced technology · Leading standard
- Ultra-hydrophilic self-cleaning coating techniques
- Enhanced Mechanical Load
  - Mechanical performance up to 5400pa positive load and 2400pa negative load

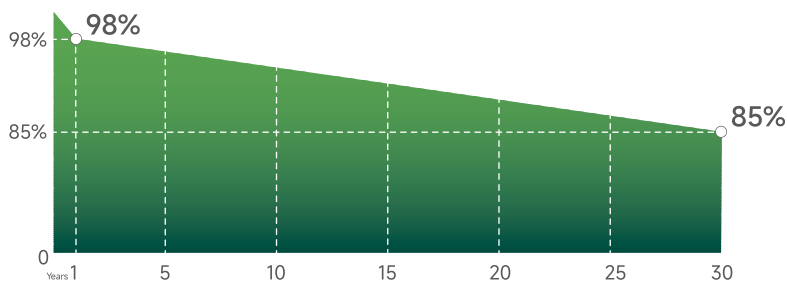


Complete System and IEC Product Certification

IEC 61215(2016), IEC 61730(2016) ISO9001: 2015: Quality Management System ISO14001: 2015: Environment Management System ISO45001:2018: Occupational Health and Safety Management System

**12 -Year** ◀◀  
Material & Workmanship

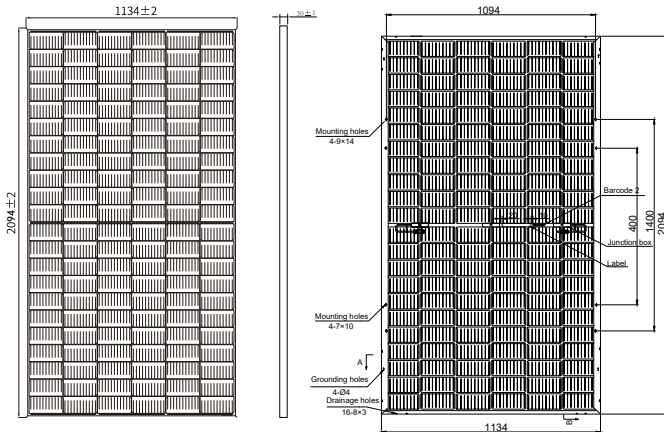
**30 -Year** ◀◀  
Linear Power Output



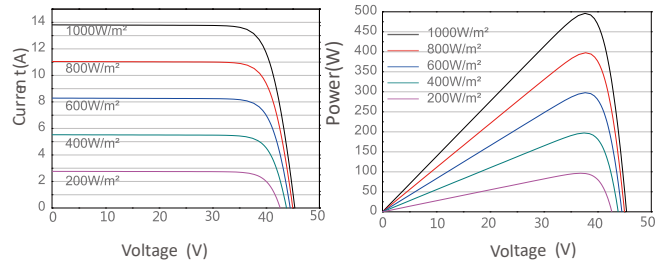
30-Year excess linear power output warranty

# RS5-480~505MBG-E2

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Drawing only for reference



Electrical Characteristics STC	RS5-480MBG-E2	RS5-485MBG-E2	RS5-490MBG-E2	RS5-495MBG-E2	RS5-500MBG-E2	RS5-505MBG-E2
Maximum Power (Pmax)	480W	485W	490W	495W	500W	505W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.21%	20.42%	20.64%	20.85%	21.06%	21.27%
Maximum Power Current (Imp)	12.76A	12.83A	12.90A	12.97A	13.04A	13.11A
Maximum Power Voltage (Vmp)	37.62V	37.81V	37.99V	38.17V	38.35V	38.53V
Short Circuit Current (Isc)	13.65A	13.72A	13.79A	13.86A	13.93A	14.00A
Open Circuit Voltage (Voc)	45.07V	45.20V	45.33V	45.46V	45.59V	45.72V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics NOCT	RS5-480MBG-E2	RS5-485MBG-E2	RS5-490MBG-E2	RS5-495MBG-E2	RS5-500MBG-E2	RS5-505MBG-E2
Maximum Power (Pmax)	363W	367W	370W	374W	378W	382W
Maximum Power Current (Imp)	10.21A	10.28A	10.36A	10.44A	10.52A	10.60A
Maximum Power Voltage (Vmp)	35.54V	35.67V	35.76V	35.84V	35.93V	36.02V
Short Circuit Current (Isc)	10.99A	11.06A	11.13A	11.20A	11.27A	11.34A
Open Circuit Voltage (Voc)	42.15V	42.30V	42.43V	42.58V	42.72V	42.86V

NOCT, Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Electrical Characteristics with 21% rear side power gain	RS5-480MBG-E2	RS5-485MBG-E2	RS5-490MBG-E2	RS5-495MBG-E2	RS5-500MBG-E2	RS5-505MBG-E2
Maximum Power (Pmax)	580.80W	586.85W	592.90W	598.95W	605.00W	611.05W
Maximum Power Current (Imp)	15.44A	15.52A	15.61A	15.69A	15.78A	15.86A
Maximum Power Voltage (Vmp)	37.62V	37.81V	37.99V	38.17V	38.35V	38.53V
Short Circuit Current (Isc)	16.52A	16.60A	16.69A	16.77A	16.86A	16.94A
Open Circuit Voltage (Voc)	45.07V	45.20V	45.33V	45.46V	45.59V	45.72V

## Mechanical Characteristics

Cell Type	MonoP-Type, 182x182 (±1) mm, 132 (6x22) Half-Cut cells
Glass	2mm+2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	1P68 Rated, With Bypass Diodes
Dimension	2094×1134×30mm
Output Cable	4 mm2 (EU), 300 mm, length can be customized
Weight	30.5kg
Connector	MC4 compatible

## Packing Information

Container	40' HQ
Pallets per Container	22
Pieces per Container	682

## Characteristics

Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.048%/°C
Temperature Coefficient of Pmax	-0.35%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Fire Performance	IEC Class C

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

## Maximum Ratings

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	25A

