

SATURN 3

ReneSola

BIFACIAL MODULE WITH TRANSPARENT BACKSHEET

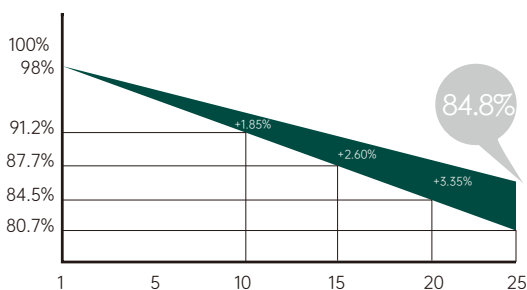
RS3-435~460MXB-E3

P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.16%

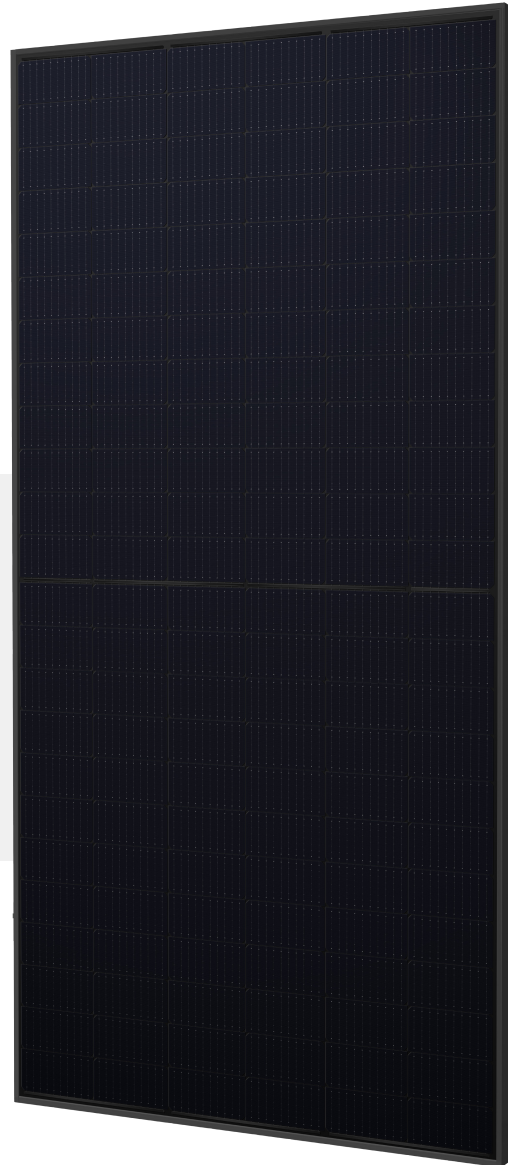
- Suitable for ground power plants and distributed projects
- Advanced module technology delivers superior module efficiency
 - Gallium-doped Wafer · Non destructive cutting · MBB half-cut
- Excellent power generation performance
 - Excellent IAM and Weak light response · Low temperature ratings
 - 0.55% linear Power decline
- High module quality ensures long-term reliability
 - Strict selected material · Advanced technology · Leading standard

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

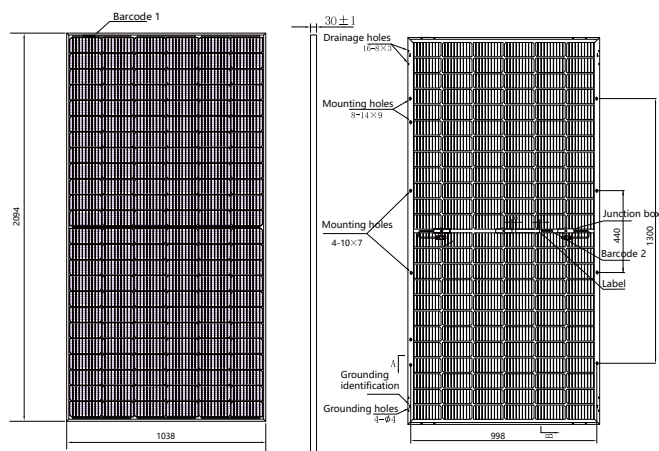


25-Year excess linear power output warranty

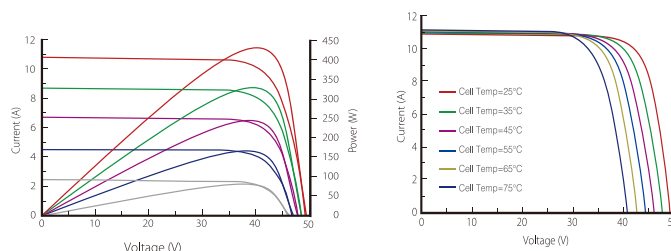


RS3-435~460MXB-E3

BIFACIAL MODULE WITH TRANSPARENT BACKSHEET



Drawing Only for Reference



Electrical Characteristics STC	RS3-435MXB-E3	RS3-440MXB-E3	RS3-445MXB-E3	RS3-450MXB-E3	RS3-455MXB-E3	RS3-460MXB-E3
Maximum Power (Pmax)	435W	440W	445W	450W	455W	460W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.01%	20.24%	20.47%	20.70%	20.93%	21.16%
Maximum Power Current (Imp)	10.53A	10.60A	10.66A	10.74A	10.81A	10.88A
Maximum Power Voltage (Vmp)	41.30V	41.50V	41.73V	41.90V	42.10V	42.28V
Short Circuit Current (Isc)	11.32A	11.40A	11.48A	11.55A	11.65A	11.74A
Open Circuit Voltage (Voc)	49.10V	49.30V	49.50V	49.70V	49.90V	50.10V

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

Electrical Characteristics NMOT	RS3-435MXB-E3	RS3-440MXB-E3	RS3-445MXB-E3	RS3-450MXB-E3	RS3-455MXB-E3	RS3-460MXB-E3
Maximum Power (Pmax)	326.8W	330.5W	334.3W	338.0W	341.8W	345.6W
Maximum Power Current (Imp)	8.51A	8.56A	8.61A	8.67A	8.73A	8.79A
Maximum Power Voltage (Vmp)	38.40V	38.60V	38.81V	38.97V	39.15V	39.32V
Short Circuit Current (Isc)	9.25A	9.31A	9.38A	9.44A	9.51A	9.58A
Open Circuit Voltage (Voc)	45.66V	45.85V	46.04V	46.22V	46.41V	46.59V

NMOT(Nominal module operating temperature) , Irradiance of 800W/m, AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

Electrical Characteristics with 21% rear side power gain	RS3-435MXB-E3	RS3-440MXB-E3	RS3-445MXB-E3	RS3-450MXB-E3	RS3-455MXB-E3	RS3-460MXB-E3
Maximum Power (Pmax)	526.4W	532.4W	538.5W	544.5W	550.6W	556.6W
Maximum Power Current (Imp)	12.74A	12.83A	12.90A	13.00A	13.08A	13.16A
Maximum Power Voltage (Vmp)	41.30V	41.50V	41.73V	41.90V	42.10V	42.28V
Short Circuit Current (Isc)	13.70A	13.79A	13.90A	13.98A	14.10A	14.21A
Open Circuit Voltage (Voc)	49.10V	49.30V	49.50V	49.70V	49.90V	50.10V

Mechanical Characteristics

Cell Type	MonoP-Type,166x166(±1)mm,144(6x24)Half-Cut cells
Glass	3.2mm,High Transmission,Low Iron,Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	2094×1038×30mm
Output Cable	4 mm2 (EU),300 mm,length can be customized
Weight	23.5kg
Installation Hole Location	See Drawing Above

Packing Information

Container	40' HQ
Pallets per Container	22
Pieces per Container	792

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

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	20A

