

MONO-FACIAL MODULE

RS3-445~465M-E3

P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.39%

- 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

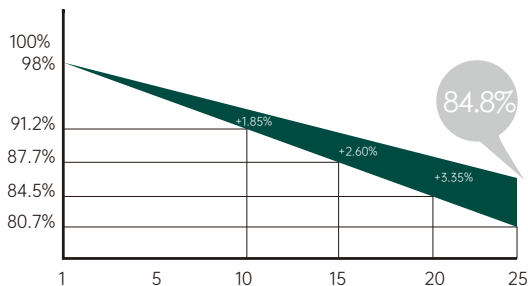
Fire Rating:C

12-year ◀◀

Material & Workmanship

25-year ◀◀

Linear Power Output

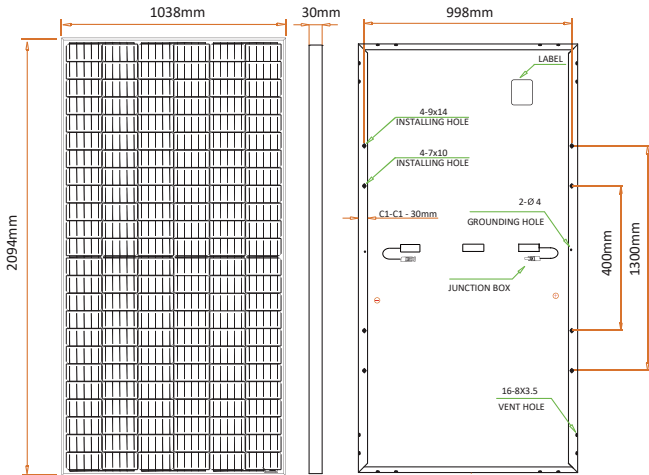


25-Year excess linear power output warranty

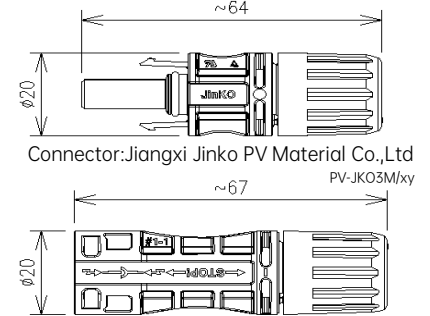
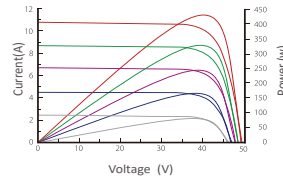
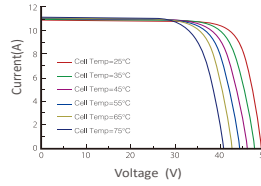


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Drawing Only for Reference



Electrical Characteristics STC	RS3-445M-E3	RS3-450M-E3	RS3-455M-E3	RS3-460M-E3	RS3-465M-E3
Maximum Power (Pmax)	445W	450W	455W	460W	465W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.47%	20.70%	20.93%	21.16%	21.39%
Maximum Power Current (Imp)	10.78A	10.85A	10.92A	10.98A	11.05A
Maximum Power Voltage (Vmp)	41.30V	41.50V	41.70V	41.90V	42.10V
Short Circuit Current (Isc)	11.38A	11.44A	11.52A	11.56A	11.61A
Open Circuit Voltage (Voc)	49.80V	50.00V	50.30V	50.70V	51.00V

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

Electrical Characteristics NMOT	RS3-445M-E3	RS3-450M-E3	RS3-455M-E3	RS3-460M-E3	RS3-465M-E3
Maximum Power (Pmax)	334.3W	338.0W	341.8W	345.5W	349.3W
Maximum Power Current (Imp)	8.70A	8.75A	8.81A	8.86A	8.91A
Maximum Power Voltage (Vmp)	38.40V	38.60V	38.80V	38.90V	39.20V
Short Circuit Current (Isc)	9.35A	9.41A	9.46A	9.51A	9.56A
Open Circuit Voltage (Voc)	46.20V	46.40V	46.50V	46.70V	46.90V

NMOT (Nominal module operating temperature), Irradiance of 800W/m², AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

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	2094x1038x30mm
Output Cable	4 mm ² (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

