# **SATURN**



### MONO-FACIAL MODULE

# RS3-445~460MX-E3

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

 Suitable for ground power plants and distributed projects

·0.55% linear Power decline

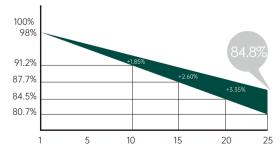
- Advanced module technology delivers superior module efficiency
  - ·Gallium-doped Wafer·Non destructive cutting ·MBB half-cut
- Excellent power generation performance
   Excellent IAM and Weak light response ·Low temperature ratings
- High module quality ensures long-term reliability
   Strict selected material · Advanced technology · Leading standard
- Ultra-hydrophilic self-cleaning coating techniques

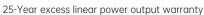
Complete System and IEC Product Certification

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





















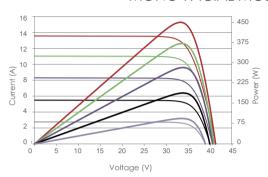




# 1038mm 35mm 986±mm 4-9x14 WSTALLING HOLE GROUNDING HOLE 16-8N3 4-9x16 GROUNDING HOLE

## RS3-445~460MX-E3

MONO-FACIAL MODULE



Drawing	Only	for	Reference
Diawing	OHIT	101	Reference

Electrical Characteristics STC	RS3-445MX-E3	RS3-450MX-E3	RS3-455MX-E3	RS4-460MX-E3
Maximum Power (Pmax)	445W	450W	455W	460W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.47%	20.70%	20.93%	21.16%
Maximum Power Current (Imp)	10.71A	10.78A	10.85A	10.92A
Maximum Power Voltage (Vmp)	41.55V	41.74V	41.94V	42.12V
Short Circuit Current (Isc)	11.47A	11.53A	11.60A	11.66A
Open Circuit Voltage (Voc)	49.30V	49.50V	49.70V	49.90V

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

Electrical Characteristics NOCT	RS3-445MX-E3	RS3-450MX-E3	RS4-460MX-E3	RS4-460MX-E3
Maximum Power (Pmax)	334.3W	338.0W	341.8W	345.6W
Maximum Power Current (Imp)	8.65A	8.71A	8.76A	8.82A
Maximum Power Voltage (Vmp)	38.64V	38.82V	39.00V	39.18V
Short Circuit Current (Isc)	9.29A	9.35A	9.41A	9.46A
Open Circuit Voltage (Voc)	46.34V	46.53V	46.72V	46.91V

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

Mechanical Characteristics		
Cell Type	MonoP-Type,166×166( $\pm$ 1)mm,144 (6×24)Half-Cut cells	
Glass	3.2mm,High Transmission,Low Iron,Tempered Glass	
Frame	Anodized Aluminum Alloy	
Juction Box	1P68 Rated, With Bypass Diodes	
Dimension	2094×1038×35mm	
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	682

-0.27%/℃
+0.048%/℃
-0.35%/℃
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 $^{\sim}$ +85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20A



