

# SATURN 7

# ReneSola

## MONO-FACIAL MODULE

# RS7-580~595M-E2

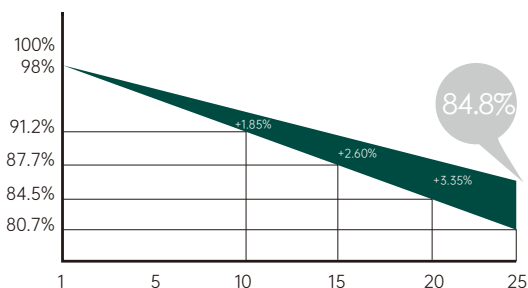
P-Type /Positive power tolerance of 0~+3%/Max module efficiency 21.29%.

- 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
  - 0.55% linear Power decline
- 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

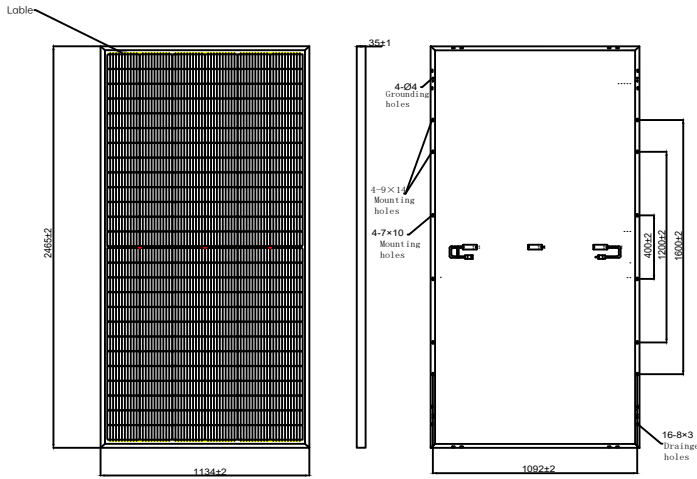


25-Year excess linear power output warranty

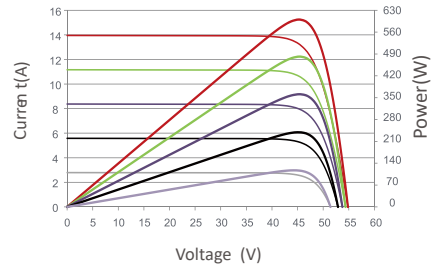


## RS7-580~595M-E2

MONO-FACIAL MODULE



Drawing Only for Reference



Electrical Characteristics STC	RS7-580M-E2	RS7-585M-E2	RS7-590M-E2	RS7-595M-E2
Maximum Power (Pmax)	580W	585W	590W	595W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	20.75%	20.93%	21.11%	21.29%
Maximum Power Current (Imp)	12..90A	12.97A	13.04A	13.12A
Maximum Power Voltage (Vmp)	44.96V	45.10V	45.25V	45.35V
Short Circuit Current (Isc)	13.78A	13.85A	13.92A	13.98A
Open Circuit Voltage (Voc)	53.46V	53.65V	53.84V	54.06V

Values at Standard Test Conditions STC(AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C)

Electrical Characteristics NOCT	RS7-580M-E2	RS7-585M-E2	RS7-590M-E2	RS7-595M-E2
Maximum Power (Pmax)	433.3W	437.0W	440.7W	444.5W
Maximum Power Current (Imp)	10.38A	10.43A	10.49A	10.56A
Maximum Power Voltage (Vmp)	41.74V	41.90V	42.01V	42.09V
Short Circuit Current (Isc)	11.14A	11.20A	11.25A	11.31A
Open Circuit Voltage (Voc)	49.40V	49.56V	49.76V	49.92V

NOCT , Irradiance of 800W/m<sup>2</sup>, AM1.5, Ambient Temperature 20 °C, wind Speed 1m/s.

### Mechanical Characteristics

Cell Type	Mono P-Type,182×182(±1)mm,156(6×26)Half-Cut cells
Glass	3.2mm,High Transmission,Low Iron,Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated, With Bypass Diodes
Dimension	2465×1134×35mm
Output Cable	4 mm <sup>2</sup> (EU),300 mm,length can be customized
Weight	30.6kg
Installation Hole Location	See Drawing Above

### Packing Information

Container	40' HQ
Pallets per Container	16
Pieces per Container	496

### 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	25A

