

Authorized Distributor of:



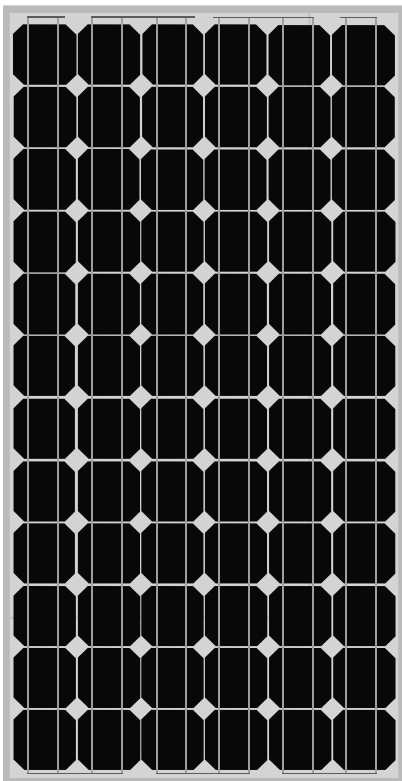
Monocrystalline Solar Module  
RF-190M5 72 Series-170/175/180/185/190/195/200  
Number of Cells: 72 (6 x 12) | Dimensions: 1580 x 808 x 35/40mm

## PRODUCT ADVANTAGE

- ◆ High efficient solar cells with high transmission deliver excellent module performance, minimizing installation costs and maximizing the kWh output of your system per unit area.
- ◆ 0-5 W Tolerances ensures to provide customers with maximum power output.
- ◆ Entire module certificated to withstand high wind loads and snow loads (5400 Pa).
- ◆ Excellent performance under low light environments.
- ◆ Positive tolerance according to the customer's requirements.

## WARRANTY

12 years materials and workmanship warranty.  
27 years performance guarantees.  
(90%~92% up to 15 years, 80%~82% up to 27 years)



## PRODUCT APPLICATION

- ◆ On-grid utility systems.
- ◆ On-grid commercial systems.
- ◆ Off-grid ground mounted systems.

## QUALITY CERTIFICATIONS

- ◆ ISO 9001:2008, ISO14001, OHSAS1800 (Quality Management System) certified factory.  
IEC 61215, IEC 61730 certified products.



## ELECTRICAL DATA

	RF-170M 72	RF-175M 72	RF-180M 72	RF-185M 72	RF-190M 72	RF-195M 72	RF-200M 72
Maximum Power at STC (Pmax)	170 W	175 W	180 W	185 W	190 W	195 W	200 W
Optimum Operating Voltage (Vmp)	35,79 V	36,08 V	36,22 V	36,49 V	36,6 V	36,8 V	36,9 V
Optimum Operating Current (Imp)	4,75 A	4,85 A	4,97 A	5,07 A	5,19 A	5,3 A	5,42 A
Open Circuit Voltage (Voc)	43,87 V	44,22 V	44,64 V	45 V	45,2 V	45,4 V	45,6 V
Short Circuit Current (Isc)	5,19 A	5,26 A	5,35 A	5,42 A	5,56 A	5,67 A	5,8 A
Module Efficiency	13,45%	13,84%	14,24%	14,64%	14,88%	15,28%	15,67%
Operating Module Temperature	-40~+85°C for 200 cycles						
Maximum System Voltage	DC 600 V (UL)/DC 1000 V (IEC)						
Max.Series Fuse	15 A						
Power Tolerance	0~+5 W						

STC: Irradiance 1000 W/m<sup>2</sup>, modules temperature 25°C, AM= 1.5 ; Efficiency reaches up to 15,67%

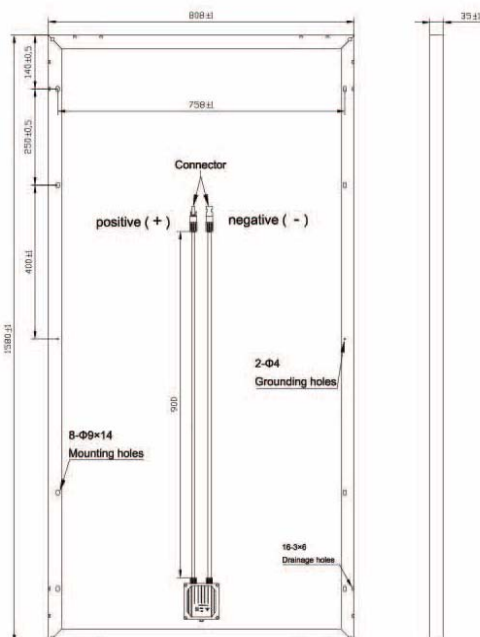
## MECHANICAL DATA

Solar Cell	125 x 125 Mono	
Number of Cells	72(6 x 12)	
Dimensions	1580 x 808 x 35 mm	1580 x 808 x 40mm
Weight	16.0 kg	16.5 kg
Frame	Anodized aluminium alloy	
Junction Box	IP65 rated	
Cable Size	900mm, 4.0 mm <sup>2</sup>	

## TEMPERATURE CHARACTERISTICS

Power Temperature Coefficient	-(0.45±0.05)%/°C
Current Temperature Coefficient	0.06±0.015%/°C
Voltage Temperature Coefficient	-(0.35±0.05)%/°C
Ambient Temperature	46±2°C
Surface Maximum Load Capacity	5400 Pa
Max. Hailstone Impact (mass/velocity)	540 kg/m <sup>2</sup>
Maximum Wind Resistance	130 km/h

## Physical Characteristics



## PACKING CONFIGURATION

Container	20' GP		40' GP	
	Pieces per pallet	Pallet per container	Pieces per pallet	Pallet per container
Pieces per pallet	29	14	26	14
Pallet per container	14	28	14	28
Pieces per container	406	364	812	728

## Electrical Characteristics

