

# SF 190-27-M

Monocrystalline Cell  
156mm x 156mm



Solarfun



Solarfun's photovoltaic modules offer high-powered, reliable performance for solar projects, both on- and off-grid.

## The Solarfun Advantage

- 100% of cells are carefully manufactured by Solarfun Power, ensuring excellence at every step of production
- Rugged double-coated aluminum-alloy frame for longevity in adverse conditions
- Every cell is individually inspected and power-matched to ensure consistent performance between the cells in the module array
- Strictly adhering to ISO 9001 quality and ISO 14001 environmental standards

170-175-180-185-190-195-200-205-210-215-220-225 Wattages Available

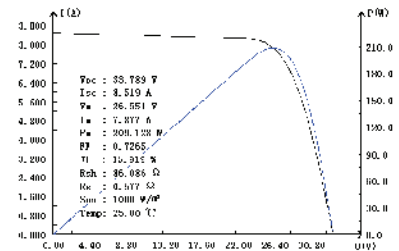


## Electrical Characteristics

	$P_{max}$	170 W	175 W	180 W	185 W	190 W	195 W	200 W	205 W	210 W	215 W	220 W	225 W
Maximum Power	$P_{max}$	170 W	175 W	180 W	185 W	190 W	195 W	200 W	205 W	210 W	215 W	220 W	225 W
Open Circuit Voltage	$V_{oc}$	32.4V	32.5V	32.6V	32.7V	32.8V	32.9V	33.0V	33.1V	33.2V	33.3V	33.4V	33.5V
Short Circuit Current	$I_{sc}$	7.49A	7.69A	7.78A	7.86A	7.93A	8.12A	8.19A	8.26A	8.32A	8.38A	8.44A	8.50A
Maximum Power Voltage	$V_{mp}$	26.1V	26.2V	26.3V	26.4V	26.5V	26.6V	26.7V	26.8V	26.9V	27.0V	27.1V	27.2V
Maximum Power Current	$I_{mp}$	6.51A	6.68A	6.84A	7.00A	7.17A	7.33A	7.49A	7.65A	7.81A	7.96A	8.12A	8.20A
Module Efficiency (%)		11.4	11.7	12.1	12.4	12.7	13.1	13.4	13.7	14.1	14.4	14.7	15.1
Cell Efficiency (%)		13.1	13.5	13.9	14.3	14.7	15.1	15.5	15.9	16.3	16.7	17.1	17.5
Tolerance		+/- 3%											
Temperature Coefficients of ( P / V / I )		-0.50%/K / -0.35%/K / +0.04%/K											
Maximum System Voltage ( IEC / UL )		1000V / 600V											

Electrical characteristics tested at Standard Test Conditions (STC), defined as: Irradiance of 1000W/m<sup>2</sup>, Spectrum AM 1.5, and Cell temperature of 25 ± 2°C.

## IV Curves

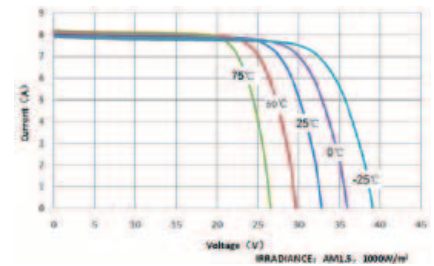


## Mechanical Specifications

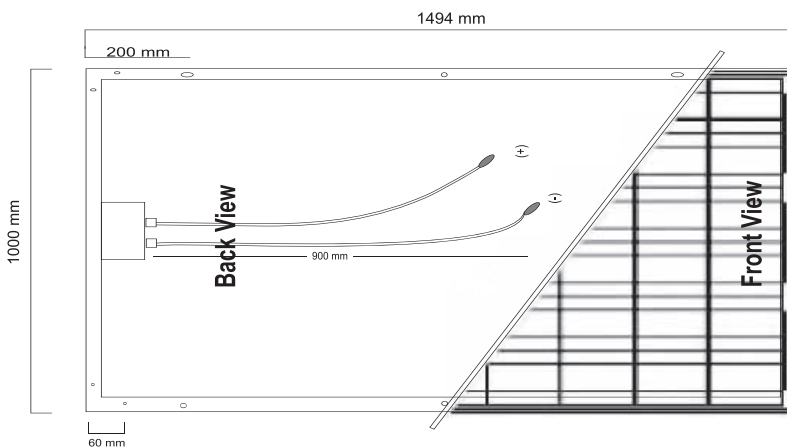
Dimensions	1494 × 1000 × 45 mm [58.8 × 39.37 × 1.77 in]
Weight	18 kg [39.6 lbs]
Frame	Aluminium-alloy
Packing Configuration	4 pcs per carton
Loading Capacity (40 ft container)	540 pcs

**5 year workmanship and 90/10, 80/25 year power warranty.**  
For full details see the *Solarfun Limited Warranty* available on request.

## Various Temperatures



## Dimensions



## Various Irradiance Levels

