

# SF 160-24-M

Square Monocrystalline Cells  
125 x 125 mm

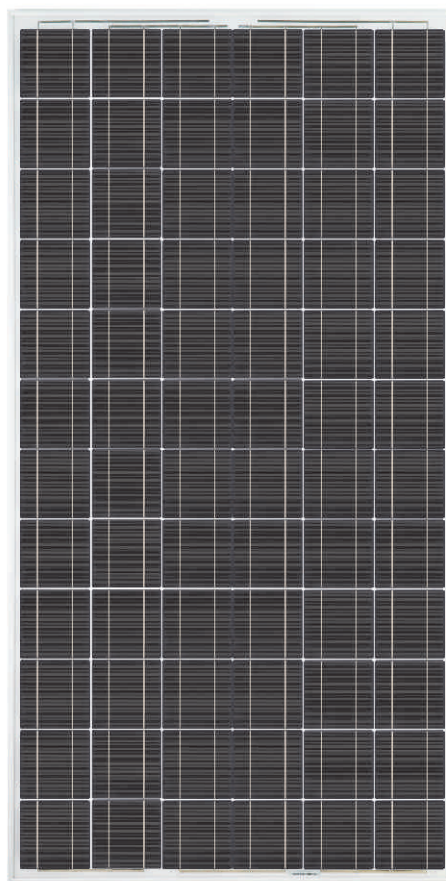


Solarfun



SF<sup>2</sup> cells are a full square shape to take advantage of the entire module surface, recapturing the surface area losses of pseudo-squares.

This innovative development increases the overall light-absorbing surface of monocrystalline cells, resulting in higher power output and up to **5% higher module efficiency**.



Solarfun's photovoltaic modules offer high-power, 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

Available Wattages: 160 - 165 - 170 - 175 - 180 - 185 - 190 - 195 W

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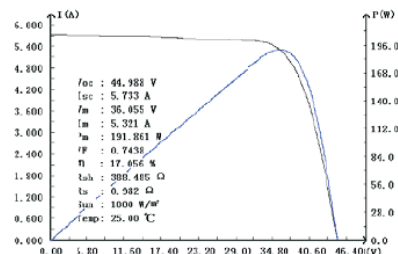
## Square Monocrystalline

### Electrical Characteristics

Maximum Power	$P_{max}$	160 W	165 W	170 W	175 W	180 W	185 W	190 W	195 W
Open Circuit Voltage	$V_{oc}$	43.3 V	43.6 V	43.8 V	44.0 V	44.3 V	44.6 V	44.8 V	45.0 V
Short Circuit Voltage	$I_{sc}$	5.15 A	5.26 A	5.36 A	5.48 A	5.59 A	5.68 A	5.78 A	5.85 A
Maximum Power Voltage	$V_{mp}$	34.6 V	34.8 V	35.0 V	35.2 V	35.4 V	35.6 V	35.8 V	36.0 V
Maximum Power Current	$I_{mp}$	4.63 A	4.76 A	4.86 A	4.98 A	5.11 A	5.21 A	5.33 A	5.42 A
Module Efficiency		12.5 %	12.9 %	13.3 %	13.7 %	14.1 %	14.5 %	14.9 %	15.3 %
Cell Efficiency		14.5 %	14.9 %	15.4 %	15.8 %	16.3 %	16.7 %	17.2 %	17.6 %
Tolerance		+/- 3 %							
Temperature Coefficient ( P / V / I )		-0.44 % / °C / -0.33 % / °C / +0.03 % / °C							
Maximum System Rating ( IEC / UL )		1000 V / 600 V							

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

### IV Curves

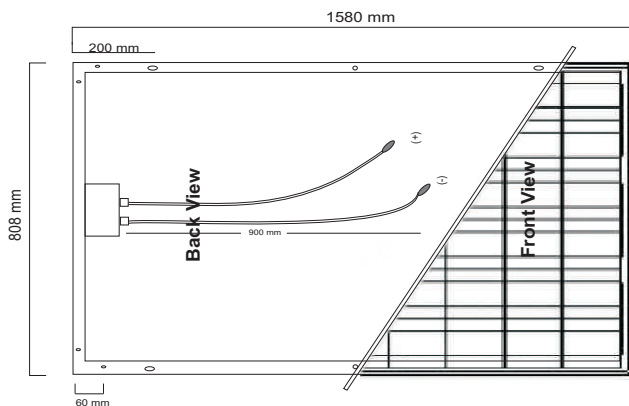


### Mechanical Specifications

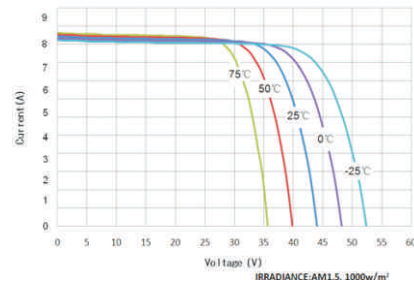
Dimensions	1580 x 808 x 45 (40) mm [ 62.2 x 31.8 x 1.77 (1.57) in ]
Weight	15 (14) kg [ 33 (30.8) lb ]
Frame	Aluminium-alloy
Loading Capacity (40 ft container)	560 - 728 modules, based upon packing configuration

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

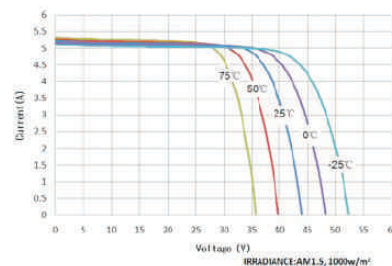
### Dimensions



### Various Temperatures



### Various Irradiance Levels



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