

Mono Crystalline Silicon PV Module SF - 125x125 - 72 - M/L/D

Power classes: 165Wp, 170Wp, 175Wp, 180Wp

Warranties:

- power tolerance $\pm 3\%$
- 2 years product warranty
- 90% of nominal power guaranteed for 10 years
- 80% of nominal power guaranteed for 25 years



Specifications:

Cell	Mono crystalline silicon solar cells 125 mm square
Connection	72 cells serial connection
Application	DC 24V
Maximum system voltage	1000V
Series fuse rating	10A
Maximum power	180W
Dimension	1580mm x 808mm x 35mm
Net weight	16.00 kg

Absolute Maximum Ratings:

Parameters	Rating	Unit
Operating temperature	-40 to +90	$^{\circ}\text{C}$
Storage temperature	-40 to +91	$^{\circ}\text{C}$
Dielectric voltage withstood	2200 max	VDC

Electro-Optical characteristics:

Module power class		165Wp	170Wp	175Wp	180Wp
Parameters	Symbol	Rating	Rating	Rating	Rating
Maximum power	P_{\max} [W]	165.0	170.0	175.0	180.0
Open circuit voltage	U_{OC} [V]	43.20	43.40	43.70	44.20
Maximum power voltage	U_{mpp} [V]	34.50	34.80	35.00	35.40
Short circuit current	I_{SC} [A]	5.13	5.20	5.30	5.40
Maximum power current	I_{mpp} [A]	4.78	4.88	5.00	5.08
Encapsulated solar cell efficiency	η_c	16.5 %			
Module efficiency	η_m	14.0 %			

Technical Parameters:

Parameter	Rating	Unit
Nominal operating cell temp	50 ± 2	$^{\circ}\text{C}$
Current temperature coefficient	0.06 ± 0.01	% / K
Voltage temperature coefficient	$-(158 \pm 10)$	mV / K
Power temperature coefficient	$-(0.5 \pm 0.05)$	% / K

The electrical characteristics are within ± 3 percent of indicated values of I_{sc} , U_{oc} and P_{max} under STC conditions.

STC: 1000 W/m², cell temperature 25 $^{\circ}\text{C}$, AM = 1.5 spectrum

Zhejiang Sunflower Light Energy Science & Technology Co. Ltd. reserves the right to modify these specifications without notice.

The electrical data may change in consideration either of quality of the raw material and/or of the process parameters.