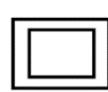


SUNFUTURE

SF-60M



22.36%
CELL EFFICIENCY
12 YEAR
PRODUCT WARRANTY
0-5W
POWER TOLERANCE



MORE BRIGHT FUTURE FROM

SUNFUTURE

**MONO 280W 285W 290W
300W 310W 315W 320W****Higher Durability**

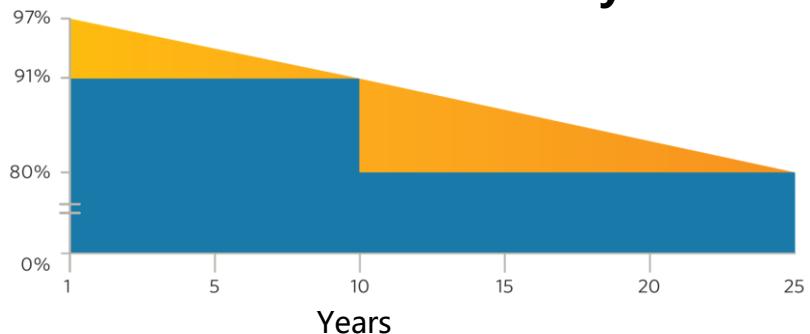
The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.

**High Power Density**

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.

**PID Resistant**

Tested in accordance to the IEC 62804 standard, SF modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for the investment.

25 Years Linear Warranty

- SF's Linear Performance Warranty
- Industry Standard Warranty

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More bright future from Sunfuture

20201101V11

SF-60 M



ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type	SF***-60M								
Power output	P _{max}	W	280	285	290	300	310	315	320
Module efficiency	η m	%	17.38	17.70	18.01	18.63	19.25	19.59	19.87
Voltage at P _{max}	V _{mp}	V	31.50	31.80	31.80	32.10	32.40	32.40	32.70
Current at P _{max}	I _{mp}	A	8.89	8.96	9.12	9.35	9.57	9.72	9.79
Open-circuit voltage	V _{oc}	V	37.80	37.99	38.16	38.52	38.88	38.88	39.24
Short-circuit current	I _{sc}	A	9.33	9.49	9.58	9.81	10.05	10.21	10.28

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.

Average relative efficiency reduction of 3.0% at 200W/m² according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P _{max}	W	206.5	210.2	213.9	221.3	228.7	232.3	236.0
Voltage at P _{max}	V _{mp}	V	29.02	29.29	29.29	29.57	29.85	29.85	30.12
Current at P _{max}	I _{mp}	A	7.11	7.17	7.30	7.48	7.65	7.78	7.83
Open-circuit voltage	V _{oc}	V	35.21	35.39	35.54	35.88	36.22	36.22	36.55
Short-circuit current	I _{sc}	A	7.46	7.59	7.66	7.85	8.04	8.17	8.22

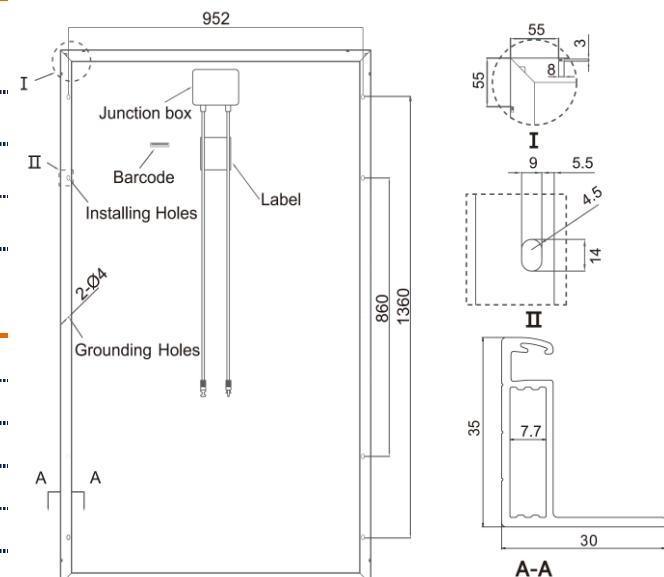
NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

THERMAL CHARACTERISTICS

Nominal operating cell temperature (NOCT)	45°C±2
Temperature coefficient of P _{max}	-0.41%/°C
Temperature coefficient of V _{oc}	-0.33%/°C
Temperature coefficient of I _{sc}	+0.059%/°C

OPERATING CONDITIONS & DIMENSION

Max. system voltage	1500V _{DC}
Max. series fuse rating	15A
Operating temperature range	-40°C to 85°C
Max. static load, front (e.g., snow)	5400Pa
Max. static load, back (e.g., wind)	2400Pa
Dimension(mm)	1640×992×35/40
Weight	17.5kg
Frame colour	Silver/Black



Back View

Unit: mm

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