SSF Solar Module

SSF-M72

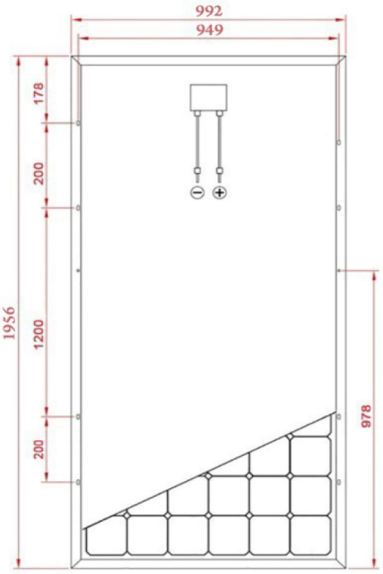
Solar Sanat Firouzeh
شرکت سولار صنعت فیروزه

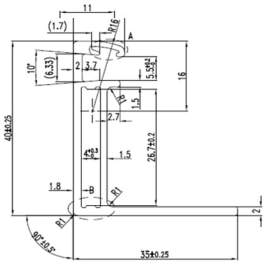
ELECTRICAL DATA @ STC	SSF-340	SSF-345	SSF-350	SSF-355	SSF-360	SSF-365	SSF-370	SSF-375	SSF-380	SSF-385
Peak Power Watts-P_{MAX} (Wp)*	340	345	350	355	360	365	370	375	380	385
Power Output Tolerance-P_{MAX} (W)	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage-V_{MPP} (V)	38.2	38.5	38.7	38.8	39.0	39.3	39.7	40.0	40.1	40.3
Maximum Power Current-I_{MPP} (A)	8.90	8.96	9.04	9.14	9.24	9.30	9.33	9.37	9.50	9.56
Open Circuit Voltage-V_{OC} (V)	46.2	46.7	47.0	47.4	47.7	48.0	48.3	48.5	48.7	48.9
Short Circuit Current-I_{SC} (A)	9.50	9.55	9.60	9.65	9.70	9.77	9.83	9.88	10.1	10.2
Module Efficiency η_m (%)	17.5	17.7	18.0	18.3	18.5	18.8	19.0	19.3	19.6	19.8

STC: Irradiance 1000 W/m², Cell Temperature 25 °C, Air Mass AM1.5
* Measuring tolerance: ±3%

ELECTRICAL DATA @ NOCT	SSF-340	SSF-345	SSF-350	SSF-355	SSF-360	SSF-365	SSF-370	SSF-375	SSF-380	SSF-385
Maximum Power-P_{MAX} (Wp)	253	257	261	264	268	272	276	279	279	283
Maximum Power Voltage-U_{MPP} (V)	35.4	35.7	35.9	36.0	36.2	36.4	36.8	37.1	37.1	37.2
Maximum Power Current-I_{MPP} (A)	7.15	7.20	7.26	7.34	7.42	7.47	7.50	7.53	7.55	7.6
Open Circuit Voltage-U_{OC} (V)	42.9	43.4	43.7	44.1	44.3	44.6	44.9	45.1	45.20	45.38
Short Circuit Current-I_{SC} (A)	7.67	7.71	7.75	7.79	7.83	7.89	7.94	7.98	7.99	8.1

NOCT: Irradiance at 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s.





COMPONENT MATERIALS

Solar Cells	Mono Crystalline 157 × 157 mm (6.18 inches)
Cell Orientation	72 cells (6 × 12)
Module Dimensions	1956 × 992 × 35 mm (77.0 x 39.0 x 1.37 inches)
Weight	22.5 kg (49.60 lb) (with 3.2 mm glass; 26.1 kg with 4.0 mm glass)
Glass	3.2 mm (0.125 inches), High Transmission, AR Coated Tempered Glass, Anti-Reflective, Low Iron, High Transmission
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 68 rated - 4 Railes - 3 pcs bypass diodes
Cables	Photovoltaic Technology Cable 4.0mm² (0.006inches²),1100 mm (43.3 inches)
Connector	MC4 Compatible

TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C(± 2°C)
Temperature Coefficient of P_{MAX}	- 0.39%/°C
Temperature Coefficient of V_{OC}	- 0.29%/°C
Temperature Coefficient of I_{SC}	0.05%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC
Max Series Fuse Rating	15A

WARRANTY

10 year Product Workmanship Warranty

25 year Linear Power Warranty

(Please refer to product warranty for details)

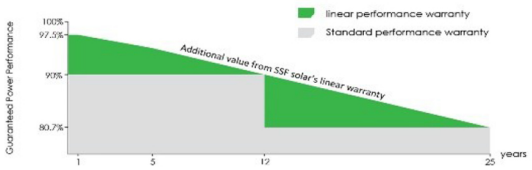
PACKAGING CONFIGURATION

Modules per box: 24 pieces

Modules per 40' container: 528 pieces

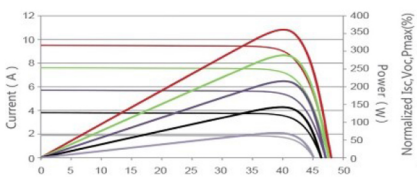
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty

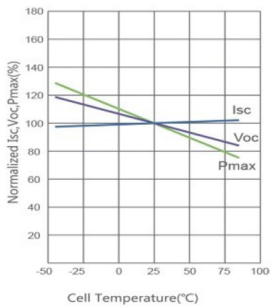


Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves (370W)



Temperature Dependence of Isc,Voc,Pmax



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