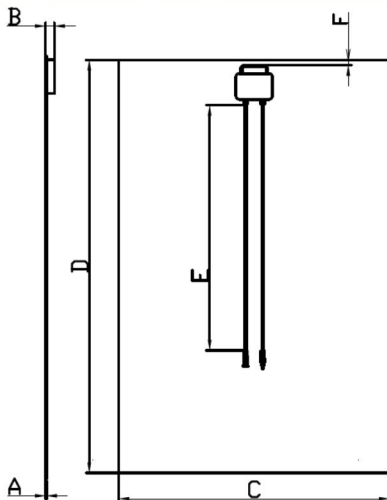


SAM96/5MK2 LAM frameless



General specifications

Manufacturer	Sunage S.A.
Production site	Switzerland
Cells type	Monocrystalline silicon
Cells dimension	Pseudosquare 125x125mm Ø165mm
No. of cells	96
Glass type and thickness	Texturized solar glass 4mm thick
Junction box	Aluminium junction box IP 67 Safety Class II
No. of by-pass diodes	4, Schottky type
Connections	2 cables 1m long MC4 compatible connectors

Warranty

Whole product	12 years
Power output	Linear decay $\leq 0.6\%$ /year up to 25 years, Initial decay $\leq 2\%$

Certificates

IEC 61215 Ed.2.0 - EN 61730-1 - EN 61730-2

Mechanical specifications

Height (mm)	1.606
Width (mm)	1.062
Thickness (mm)	5
Weight (Kg)	20.9
Maximum snow load	5.400 Pa
Maximum wind speed	130 Km/h
Hail	G5 Class; Ø 50 mm; 59.9 gr; 30.8 m/sec
A (mm)	5
B (mm)	34
C (mm)	1.062
D (mm)	1.606
E (mm)	1.000
F (mm)	15
Tolerance $\pm 2\%$	

In order to correctly and safely install the modules please refer to Sunage Installation Manual

** The electrical specifications are measured under STC conditions (1000 W/sqm, 1.5 Air Mass Spectrum, cells temperature 25°C); the reference module used to set our Sun Simulator has been calibrated by SUPSI University in calibration tolerance and of the guaranteed performances of the simulator.

Electrical specifications**

Nominal Power (Wp)	Tolerance (Wp)	Vmp (V)	Imp (A)	Voc (V)	Isc (A)	*Current Temp. Coeff. α (%/°C)	*Voltage Temp. Coeff. β (%/°C)	*Power Temp. Coeff. γ (%/°C)	R shunt (Ohm)	R series (Ohm)
SAM 96/5 MK2 Lam 275	+4.9/-0	50.45	5.46	61.98	5.79	0.048	-0.29	-0.427	169	0.41
SAM 96/5 MK2 Lam 280 ***	+4.9/-0	50.53	5.55	62.08	5.87	0.048	-0.29	-0.427	178	0.41
SAM 96/5 MK2 Lam 285 ***	+4.9/-0	50.61	5.64	62.18	5.96	0.048	-0.29	-0.427	191	0.41

***versions only available with white backsheet

NOCT: 45°C

Maximum system voltage: 1000 V

Operating temperature: - 40 °C + 85°C

* The thermal coefficients refer to Isc, Voc e Pn