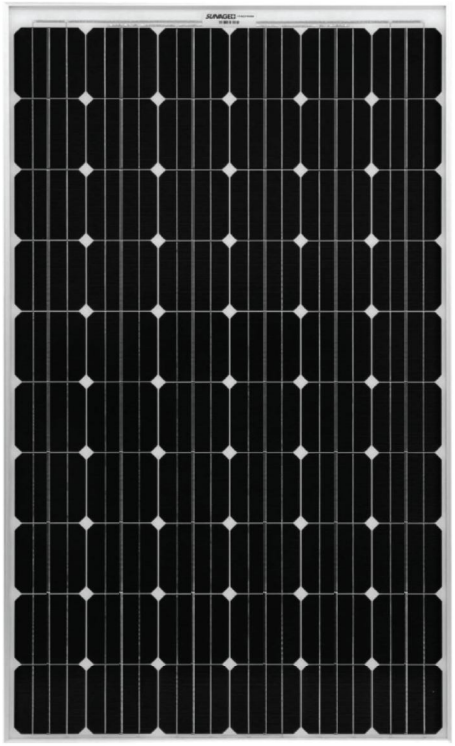
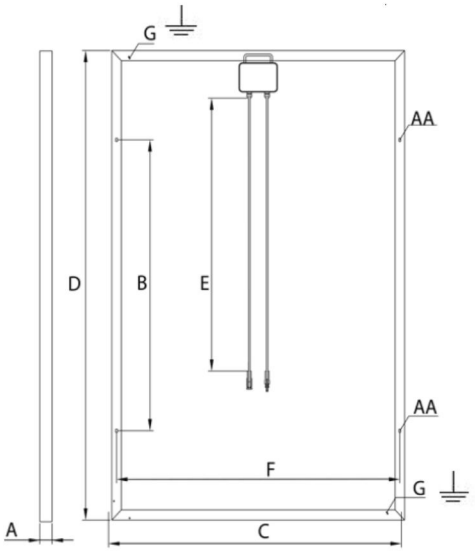
SUNAGE

SAM60/6





General specifications	
Manufacturer	Sunage S.A.
Production site	Switzerland
Cells type	Monocrystalline silicon
Cells dimension	Pseudosquare 156x156mm 3busbars
No. of cells	60
Glass type and thickness	Texturized solar glass 4mm thick
Junction box	Aluminium junction box IP 67 Safety Class II
No. of by-pass diodes	3, Schottky type
Connections	2 cables 1m long MC4 compatible connectors
Frame	Anodized aluminum

Warranty	
Whole product	12 years
Power output	Linear decay ≤ 0.6%/year up to 25 years, initial decay ≤ 2%

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

Mechanical specifications	
Height (mm)	1.658
Width (mm)	993
Thickness (mm)	35
Weight (Kg)	21.3
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)	35
B (mm)	1.000
C (mm)	993
D (mm)	1.658
E (mm)	1.000
F (mm)	958
G (mm)	grounding hole Ø 4
AA (mm)	mounting hole Ø 6 x 12
Tolerance ± 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 60/6 265	+4.9/-0	31.59	8.39	38.96	9.08	0.048	-0.29	-0.427	180	0.34
SAM 60/6 270	+4.9/-0	31.81	8.49	39.35	9.11	0.048	-0.29	-0.427	190	0.34
SAM 60/6 275	+4.9/-0	32.04	8.59	39.74	9.14	0.048	-0.29	-0.427	200	0.34
SAM 60/6 280 ***	+4.9/-0	32.30	8.68	40.12	9.17	0.048	-0.29	-0.427	210	0.33
SAM 60/6 285 ***	+4.9/-0	32.51	8.77	40.51	9.20	0.048	-0.29	-0.427	220	0.32

*** versions only available with white backsheet	
NOCT: 45°C	Operating temperature: - 40 °C + 85°C
Maximum system voltage: 1000 V	* The thermal coefficients refer to Isc,Voc e Pn

Release 10.0 - 12/ 2014