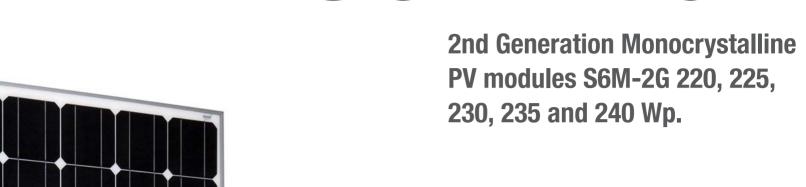


Solaria PV Modules S6M-2G









Certifications

Manufacturing in its own facilities certified according to ISO 14001 and 9001 standards.

Certified according to IEC 61215:2005 standard (manufacturing approval and design qualification).

Certified according to IEC 61730-1 and IEC 61730-2: 2004 standards (electrical safety qualification).

Electrical Safety Class II.









Guarantees

- 5 years: materials.

- 10 years: 90% of the nominal power.

- 25 years: 80% of the nominal power.

Technical characteristics

High efficiency, of up to 14,70 %, with **positive tolerances.**

Snow load (5.400 Pa).

Light module, 19 kg weight.

Identification by an encapsulated serial number.

Connector's special protection until installation.



Key facts of Solaria

The only Spanish solar photovoltaic company listed on the Stock Exchange.

Vertically integrated company, with full control over the whole production process.

Design and production of monocrystalline and polycrystalline sillicon cells.

Solaria intensively uses its modules in self operated plants and turnkey solutions for third parties.

PV Modules S6M-2G



Electrical characteristics of the S6M-2G series(*)

		S6M2G220	S6M2G225	S6M2G230	S6M2G235	S6M2G240	
Maximum power (- 0, + 5Wp)	P _{max}	220 Wp	225 Wp	230 Wp	235 Wp	240 Wp	
Voltage at maximum power	V_{mpp}	28,84 V	29,15 V	29,46 V	29,75 V	30,05 V	
Current at maximum power	I mpp	7,63 A	7,72 A	7,81 A	7,90 A	7,99 A	
Open circuit voltage	Voc	36,62 V	36,86 V	37,10 V	37,34 V	37,58 V	
Short circuit current	sc	8,39 A	8,42 A	8,44 A	8,47 A	8,49 A	
Module efficiency	Efm	13,5 %	13,8 %	14,1 %	14,4 %	14,7 %	
Temperature coefficient of Isc				+ 0,015 %/K			
Temperature coefficient of Voc	- 0,31 %/K						
Temperature coefficient of Pmax	ent of P _{max} - 0,46 %/K						
Maximum reverse current	20 A						
NA - ' II (IFO)				1000 1/ /4 01-	- 1		

Efficiency reduction in a partial loading performance: lower than 5 % (200 W/m², 25°C).

Electrical characteristics under NOCT conditions (800 W/m², AM 1,5, 20°C, 1m/s) at $46 \pm 2^{\circ}C$

		S6M2G220	S6M2G225	S6M2G230	S6M2G235	S6M2G240
Maximum power (- 0, + 5Wp)	Pmax (Wp)	162,1	166,1	169,7	173,4	177,1
Voltage at maximum power	Vmpp (V)	26,99	27,27	27,55	27,83	28,11
Current at maximum power	Impp (A)	6,01	6,09	6,16	6,23	6,30
Open circuit voltage	Voc (V)	33,96	34,18	34,40	34,63	34,85
Short circuit current	Isc (A)	6,75	6,77	6,79	6,81	6,83

Constructive and dimensional characteristics

Dimensions (± 3 mm) 1.646 x 991 x 38 mm.

Weight (kg) 19 kg.

Maximum system voltage (IEC)

Solar Cells 60 quasi – squared monocrystalline cells of 6 inches, texturised

and antireflective coated.

Connection: all the cells are connected in series and configured

as a 6x10 matrix.

Construction **Front:** high transmission tempered glass 3,2 mm thick.

Rear: highly insulating backsheet.

Encapsulant: EVA (Ethylene - Vinyl - Acetate).

Frame: anodised Aluminium with water drainage holes.

Electrical connections

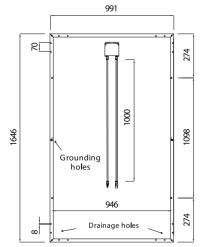
Junction box IP 65.

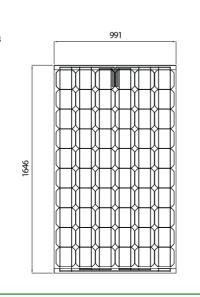
Including 3 by-pass diodes of 11 A.

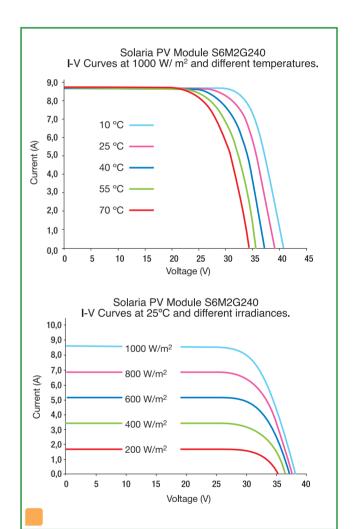
Protection diodes

100 cm long black solar cable and fast connectors IP67. Connectors

Mechanical characteristics







1000 V (A Class)



Solaria Energía y Medio Ambiente

C/ Princesa 2 – 3ª planta 28008 Madrid - Spain. T. +34 915644272. F. +34 915645440. contact@solariaenergia.com

www.solariaenergia.com

^(*) Electric values under Standard Test Conditions (STC) with an irradiation value of 1000 W/m², at an AM 1,5 solar spectrum and a temperature of 25°C. The measurement tolerance of the electric parameters is \pm 2,5 %