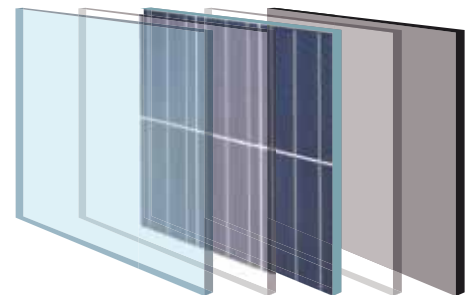


60 cells - Standard or Solrif frame

6 strings of 10 polycrystalline cells



1. Solar quality glass
2. EVA
3. Cells
4. EVA
5. Tedlar (PVF)

Solar quality glass, thickness 4 mm,

Resistance to extreme climatic conditions (5400 pa),

Assembly Verre-EVA-Backsheet made under vacuum for an excellent encapsulation of the cells,

3 bus bar connect cells together for a high efficiency.



Certifications IEC 61215 et IEC 61730 parts I and II.
Security class II.
Manufacturer guarantee : 10 years.

Guarantee of functioning :
- 90% during 12 years.
- 80% during 25 years.

Polycrystalline modules

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Photovoltaic panels	60 P 230*	60 P 235	60 P 240	60 P 245	60 P 250 ^{*(1)}
Maximum Power at STC (Pmax)	230	235	240	245	250
Power tolerance**	+/- 3%				
Color of backsheet	White				
Module's efficiency per m2 (%)	13,8	14,1	14,4	14,7	15
Kind of cells	Polycrystallines				
Number of cells	60				
Cells dimensions (mm)	156 x 156				
Normal Operating Cell Temperature (Noct)	45 +/- 1 °C				
Maximum System Voltage	1000 V				
Optimum Operating Voltage Vpm (V)	29.25	29.6	29.65	29.7	29.75
Optimum Operating Current Ipm (A)	7,85	8.05	8.2	8.35	8.4
Open - Circuit Voltage Voc (V)	36.25	36.8	36.9	36.95	37.02
Short - Circuit Current Isc (A)	8.4	8.6	8.65	8.75	8.82
Maximal Admissible Reverse Current (A)	15				
Number of by-pass diodes	3				
Impact of the cells temperature :					
Isc	+ 4,5 mA/°C				
Voc	- 125 mV/°C				
Pm = Ipm*Vpm	- 0,42 %/°C				
Operating temperature	- 40... +85°C				
Connections	Lumberg LC4				

According to conditions of standardized test (STC): period of sunshine of 1000 W / m2, AM 1.5, temperature of cells 25°C.

* Subject to availability of cells. Consult SILLIA Energie before any order.

** Other electrical tolerances +/-10%

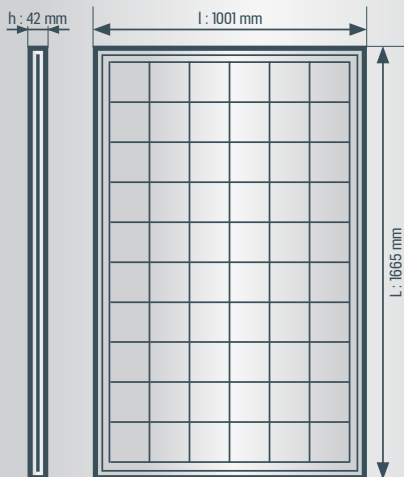
(1) Production with an Anti Reflections Coating Glass

MECHANICAL CHARACTERISTICS

Standard frame (anodized aluminium)

Module's weight : 22 kg

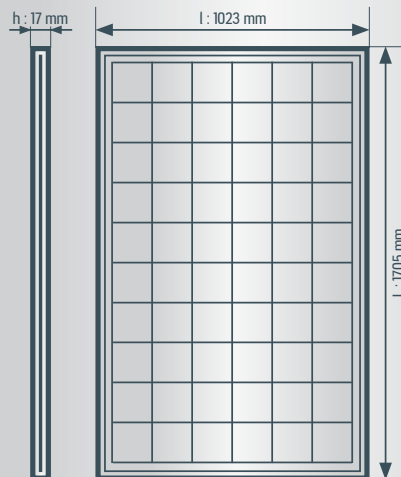
Cable's lenght : 2 x 1 m



Solrif frame

Module's weight : 20,5 kg

Cable's lenght : 2 x 1,20 m



	L	l	h
Dimensions (mm)	1665	1001	42

Portrait or landscape orientation - Dimensions +/- 2.5 mm

	L	l	h
Dimensions of installation (mm)	1686	991	17
Dimensions (mm)	1705	1023	17

Landscape orientation