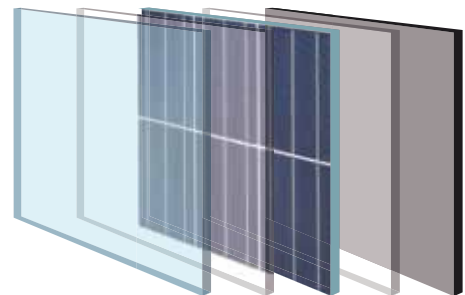
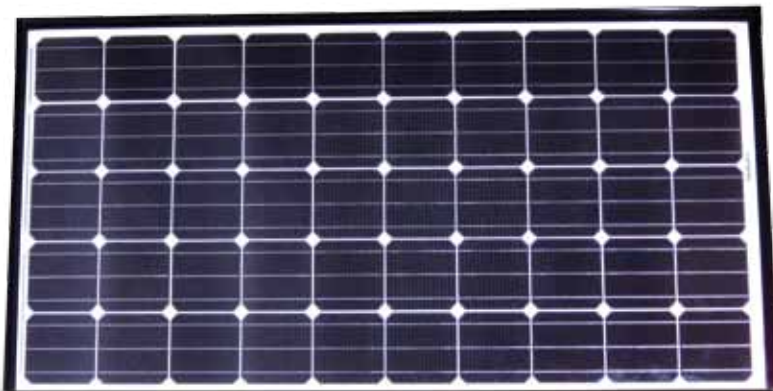


# 50 cells - Standard or Solrif frame

5 strings of 10 monocrystalline 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.

MEMBER



ALLIANCE  
QUALITÉ  
PHOTOVOLTAÏQUE

# Monocrystalline modules

Photovoltaic panels	50 M 205*	50 M 210
Maximum Power at STC (Pmax)	205	210
Power tolerance**	+/- 3%	
Color of backsheet	White	
Module's efficiency per m2 (%)	14,8	15,15
Kind of cells	Monocrystallines	
Number of cells	50	
Cells dimensions (mm)	156 x 156	
Normal Operating Cell Temperature (Noct)	45 +/- 1°C	
Maximum System Voltage	1000 V	
Optimum Operating Voltage Vpm (V)	25.2	25.5
Optimum Operating Current Ipm (A)	8,15	8,25
Open - Circuit Voltage Voc (V)	30,3	31,4
Short - Circuit Current Isc (A)	8,65	8,8
Maximal Admissible Reverse Current (A)	15	
Number of by-pass diodes	3	
Impact of the cells temperature :		
Isc	+ 4.2 mA/°C	
Voc	- 105 mV/°C	
Pm = Ipm*Vpm	- 0.41 %/°C	
Operating temperature	-40...+85°C	
Connections	Lumberg type 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.

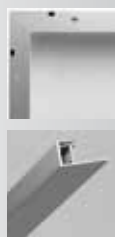
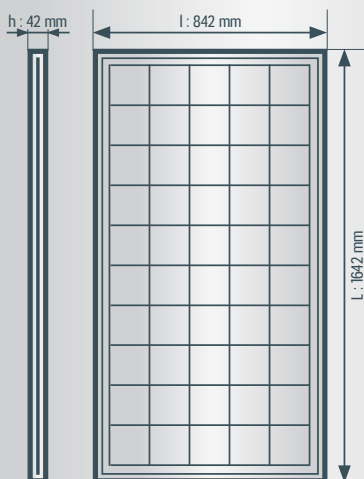
\*\* Other electrical tolerances +/-10%

## MECHANICAL CHARACTERISTICS

### Standard frame (anodized aluminium)

Module's weight : 19 kg

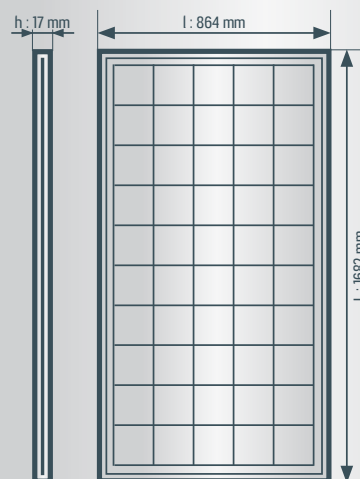
Cable's length : 2 x 1 m



### Solrif frame

Module's weight : 17,5 kg

Cable's length : 2 x 1,20 m



	L	l	h
Dimensions (mm)	1642	842	42

Portrait or landscape orientation - Dimensions +/- 2.5 mm

	L	l	h
Dimensions of installation (mm)	1663	832	17
Dimensions (mm)	1682	864	17

Landscape orientation