

SOLAR HYBRID BOX®



Cabinet version

Energy conversion and storage unit that can be interconnected with external energy sources (PV, grid, generator).



Single phase box (3 and 5 kVA)



Three phase box (15kVA)

Product characteristics

	Single phase box	Three phase box
Length x width x height (m)	0,50 x 0,6 x 2,1	0,90 x 1,80 x 2,20
Weight (kg)	320kg (all options)	700
IP rating	IP54	
Technical room	Forced ventilation	Air-conditioned
Handling	Forklift/pallet jack/lifting lugs (optional)	

Technical specifications

	Single phase box	Three phase box
Power inverter charge	3 or 5 kVA at 25°C	15 kVA at 5°C
PV inverter power	2,4 to 4kW	12kW
Battery capacity (3kVA)	4,8 to 14,4kWh	28,8 to 43,2kWh
Battery capacity (5kVA)	9,6 to 14,4kWh	28,8 to 43,2kWh

Battery system

Cells technology	Lithium Iron Phosphate (LiFePO4)
Tension	48V
Nominal capacity	2,4kWh/battery pack
Life cycles	>8000 at 25°C and 90% DoD
Maximum continuous charge/discharge current	100A

The strong points of the Solar Hybrid Box®

- System ready to be connected to external power sources
- Customizable
- Plug and Play
- Simplified commissioning, no specialized installer needed



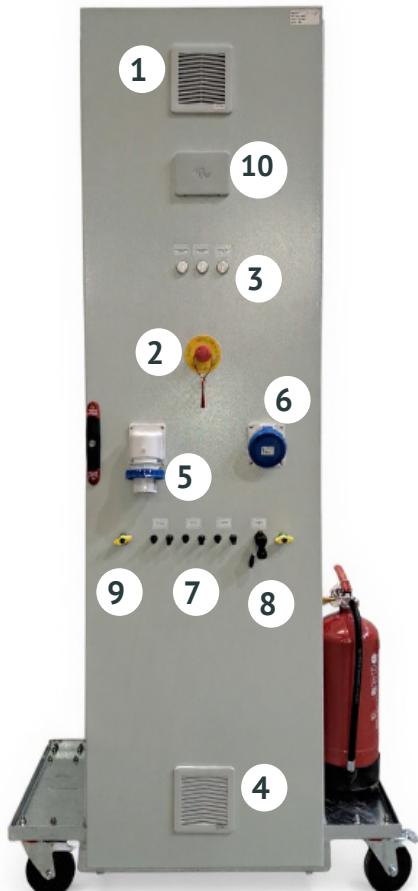
Products manufactured in France. Find all specifications at ecosuninnovations.com



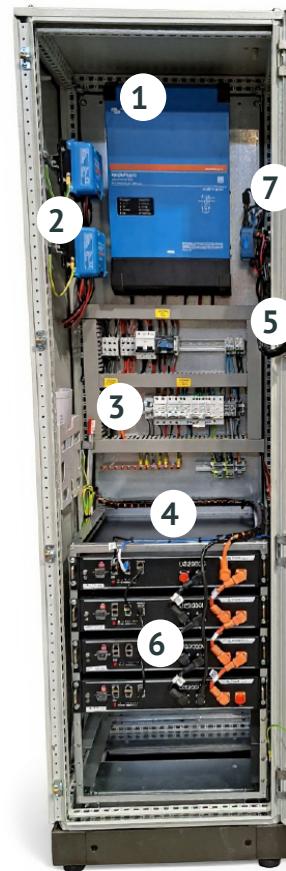
SOLAR HYBRID BOX®



Cabinet version



- 1 Ventilation grid
- 2 Emergency stop button
- 3 Voltage presence indicators
- 4 Low ventilation grid
- 5 Power connector
- 6 Charging socket
- 7 Solar PV connections
- 8 Boot socket Diesel Generator
- 9 Earthing connection
- 10 IHM (Control screen)



- 1 Inverter - charger
- 2 Solar charge controller
- 3 Electrical protection
- 4 Connection terminal
- 5 4G LTE Modem
- 6 Batteries
- 7 Cerbo GX

Options

- Front panel connectors
- Casters on 3 and 5kVA (single phase box)
- Connection to socket
- Lifting rings
- Supplementary charge controller on 3 and 5kVA- until 3
- Fire extinguisher
- Customized color and logo

For an optimal use with Diesel Generator:

Generator power = 1,2 to 1,5 x kVA of the Solar Hybrid Box®

The diesel generator must be equipped with an ATS autostart system and an electric starter.



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SOLAR HYBRID BOX®



Container version

Energy conversion and storage unit that can be interconnected with external energy sources (PV, grid, generator).



Exemple of a 20' container

Technical specifications

Power battery charger	from 30 to 135kVA
Power PV inverter	from 25 to 100kVA
Battery capacity	43,2 to 172kWh

Product characteristics

Length x Width x Height (m)	6,06 x 2,44 x 2,6
Weight (t)	5 to 16
Technical room	Isolated and air-conditioned
Handling	Top lifting via ISO corners
CSC Certificate	Yes

Battery system

Cells technology	Lithium Iron Phosphate (LiFePO4)
Voltage	48V
Nominal capacity	4,8kWh/battery pack
Battery life cycles	>8000 at 25°C and 90% DoD
Maximum continuous charge/current discharge	100A

The strong points of the Solar Hybrid Box®

- System ready to be connected to external sources
- Customized container color and logo
- Plug and Play
- Forced ventilation / Air-conditioned
- High solar connection capacity, up to 135 kWp.
- Simplified commissioning, no specialized installer required



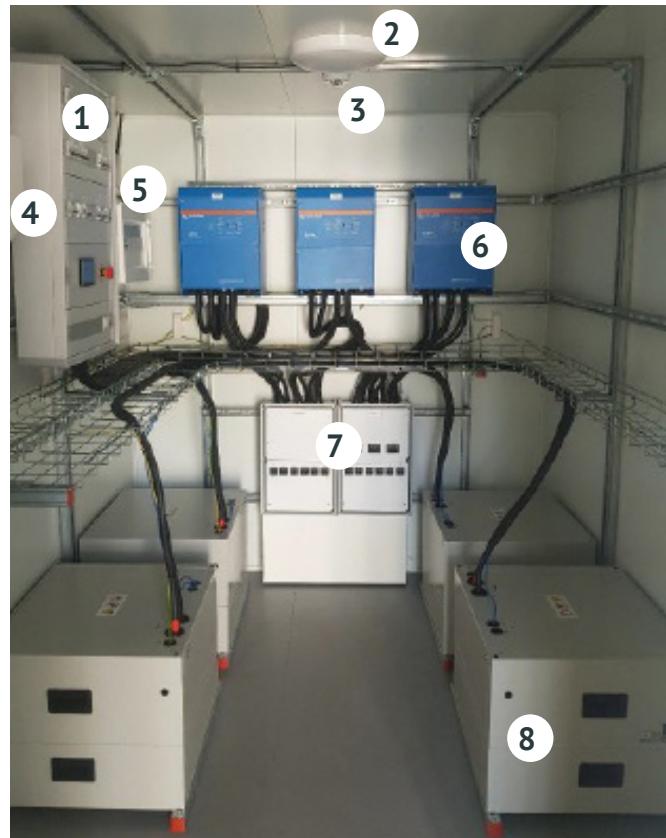
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SOLAR HYBRID BOX®



Container version



1 Container

2 Isolated and air-conditioned room

1 Electrical box

2 Light

3 Smoke detector

4 Air-conditioning

5 DC distribution box

6 Hybrid inverters

7 DC protection box

8 Batteries

Options

Customized container color and logo

Scalable and measure adapted battery configuration in multiples of 4.8 kWh



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