

SOLAR HYBRID BOX®

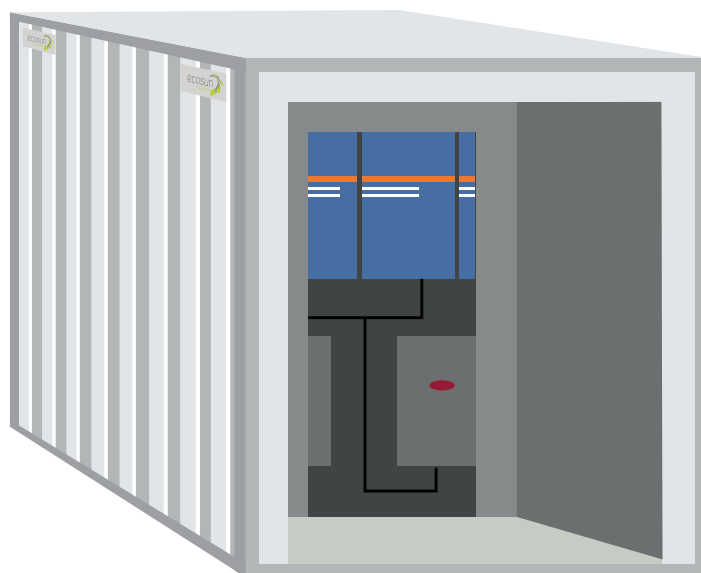


The Solar Hybrid Box® range includes energy conversion and storage units that can be interconnected with external sources (PV, grid, generator).

This range is divided into box for small power, in 10' containers for intermediate power and 20' containers for larger power. Those solutions are delivered pre-tested and ready to connect. They integrate a remote supervision system.

The Solar Hybrid Box® provides safe, reliable and economical solar energy. This Plug&Play solution is designed for countries that have multiple energy sources available on site : solar, batteries, grid, backup genset as well as any renewable sources.

The system can be used to control any connected generators.



Solar Hybrid Box® technical specifications

Solution dimensions

	Single phase box	Three phase box	Container 10'	Container 20'
Length (m)	0.8	0.9	3	6.06
Width (m)	0.6	1.8	2.44	2.44
Height (m)	2	2.2	2.6	2.6

Features and mobility

	Single phase box	Three phase box	Container 10'	Container 20'
Format	Electrical box in galvanized steel	Electrical box in galvanized steel	10ft container	20ft container
Technical room	Ventilated	Air-conditioned	Insulated and air-conditioned	Insulated and air-conditioned
System weight	400 kg	750 kg	3.5 to 8 t	5 to 16 t
Battery inverter power	3.5 or 8 kVA	9 or 15 kVA	Up to 135 kVA	Up to 180 kVA
PV inverter power	Up to 8 kVA	Up to 15 kVA	Up to 135 kVA	Up to 180 kVA
Battery capacity	Up to 14.4 kWh	Up to 38.4 kWh	Up to 260 kWh	Up to 520 kWh

Battery system

Technology	Lithium Iron Phosphate (LiFePO4)
Voltage	48 V

Options

General	Supervision system of generator Customized container color and logos
Outdoor box	Additional galvanized steel frame Lifting hooks and wheels

Applications

Humanitarian, eco-tourism, mobile construction sites, military, telecom, agriculture, rural electrification, energy producers, mining, events, gas station, base camps, water treatment and insular areas, crisis situations.

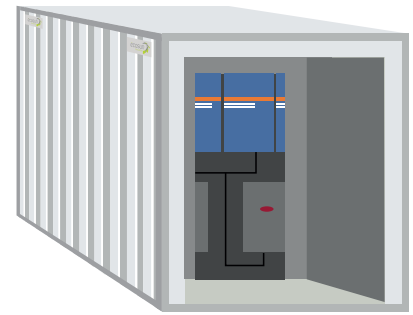
Solar Hybrid Box® range - different configurations



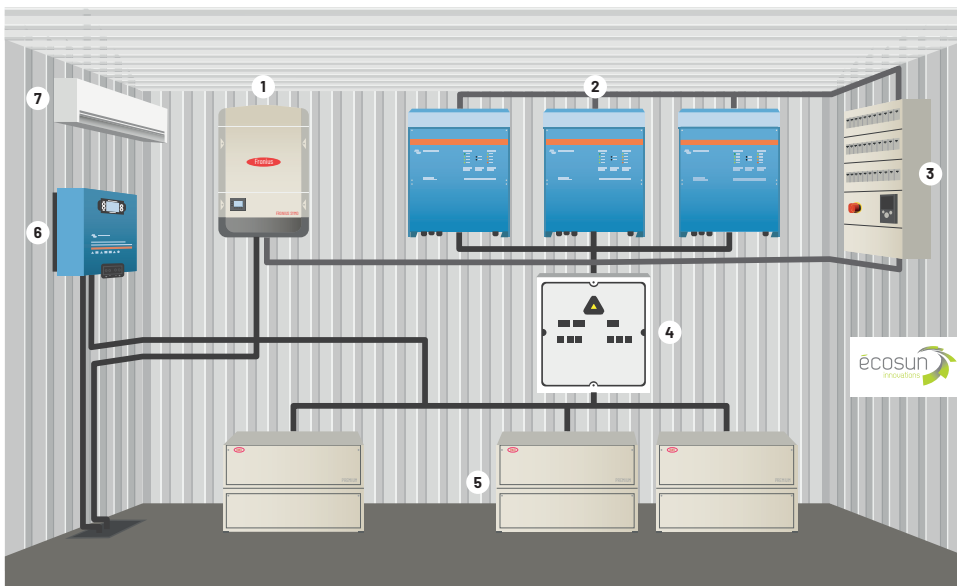
Single phase box



Three phase box



Container 10' / Container 20'



Example of a technical room in a container

- 1 Photovoltaic inverter: conversion of DC to AC current
- 2 Bidirectional inverters: charging and discharging batteries
- 3 AC protection box with monitoring screen
- 4 DC protection box
- 5 Batteries
- 6 MPPT controller
- 7 Air conditioning

Solar Hybrid Box® range advantages

- ↪ Wide range of possibilities, power and storage capacities
- ↪ Complete system ready for connection to external sources
- ↪ Can be used as a mobile, semi-mobile or stationary solution
- ↪ Easy to implement without a technician

🇫🇷 Made in France