



## COMPACT STORAGE SYSTEM

The Mobile Storage Station is an innovative and compact system that allows to store in Lithium-Ion Batteries the energy produced by Photovoltaic panels, a Generator and / or the Network.

The storage solution can be used as a power supply for isolated sites, as a complement to energy and as a security system (UPS).

## AUTOMATIC ENERGY MANAGEMENT

The multi-function system allows the automatic management of available energies by exploiting photovoltaic energy as a priority and can automatically manage the start-up of a generator or the top-up of the local grid when there is a shortage of photovoltaic energy production.

## MPPT CONTROLLER

The system is equipped with an MPPT controller for direct connection to solar panels and has "Plug and Play" connectors for immediate use as soon as it is installed.

+ pictures here



## THE SOLUTION FOR TOTAL OR PARTIAL AUTONOMY, **COMPACT-POWERFUL-SECURE-PLUG AND PLAY !**

Possibility of parallel/serial connection up to 3 cabinets for a maximum power set of **36kW** and **62kWh** of storage

### EXAMPLE:

Nb of units in parallel	Type of station		Cumulative nominal power kW		Max. cumulative nominal power with Smart Boost* function		Cumulative battery capacity kWh		MPPT controller
	4,2/14	12/20,7	4,2	12	8,4	24	13,8	20,7	
1	4,2/14	12/20,7	4,2	12	8,4	24	13,8	20,7	5 kW
2	4,2/14	12/20,7	8,4	24	16,8	48	27,6	41,4	2 x 5 kW
3	4,2/14	12/20,7	12,6	36	25,2	72	41,4	62,1	3 x 5 kW

\*SMARTBOOST FUNCTION: THE PURPOSE OF THIS FUNCTION IS TO COMBINE THE POWER OF THE INVERTER WITH THAT OF THE GRID OR THE GENERATOR. THUS, THE TWO POWERS ADD UP TO TWICE THE POWER OF THE INVERTER.

The particularity of IBS solutions is to produce and store DC energy (direct current) in SELV (safety extra low voltage) and to transform this energy into alternating current that is perfectly compatible and can be synchronized with the grid.

Either in single phase 230V-50Hz (1P+N+T)

Either in three-phase 230/400V-50Hz (3P+N+T)



EUROPEAN MANUFACTURING



/ UN 38.3  
EUROPEAN STANDARDS



NOISELESS



AUTONOMOUS



Mobile Storage Station	References	
	FC4,2/14 M1	FC12/20 M1
Available Power	UNITS	VALUES
Continuous power	kW	2,7   10,5
Power 30 min.	kW	4,2   12
Power 5 sec.	kW	8,4   31,5
Possible power sources		
Max. photovoltaic panel power (DC source) – integrated MPPT	kWc	5
Photovoltaic power supply voltage	Vcc	48-96
Power of generator set (AC source)	kW	4,2   12
Maximum power drawn from the grid (AC source)	kW	4,2   12
AC supply voltage	V	230/400
Inverter/Battery charger		
AC output voltage	V	230/400
DC output voltage	V	48
Distribution		Single or Three-phase
Inverter		Pure sinus
Integrated charger	A	36 Max.   150 Max.
Battery energy storage		
Max Energy	kWh	13,8   20,7
Available Energy (BoL)	kWh	12,8   19,3
Battery voltage	V	39,2 to 58,8
Lithium-ion technology		12 or 18 removable batteries 50,68V / 1,15 kWh
Standards		CE / UN38.3
Integrated electronic protection		Yes
Usage		
Digital control panel		In option
Smartphone application battery control		Yes
230V/110V external and internal socket		Yes
48V input/output socket		Yes
RJ45 communication port		Yes
GSM/SMS communication device		In option
Management and geolocation website		Yes
Operating temperature	°C	from -10 to 45
Frame		
Dimensions	mm	790x790x1580
Weight (approx.)	kg	Between 220 and 310 depending on options
Fire classification	M	1
OPTIONS		
Mobile Storage Station: 4,2kW/14kWh M1		FC4,2/14M1
Mobile Storage Station: 12kW/20kWh M1		FC12/20M1
External case: control screen + LAN communication		VALISE-EXT-LAN
External case: control screen + GSM communication (excluding subscription)		VALISE-EXT-GSM
Semi-rigid 200W peak solar panel (without MPPT) Made in France		PSOL-FLEX-200
Rigid solar panel 300W peak (without MPPT) Made in France		PSOL-300
Spare battery 48V		BAT14S8C285V2