

LMP® technology

LMP® : cutting-edge, effective and safe technology

Backed by more than 20 years of research, the Bolloré Group is the only manufacturer that masters solid-state Lithium Metal Polymer (LMP®) technology



Safer than other battery technologies, these fourth-generation batteries stand out for their major benefits:

SAFETY AND STRENGTH

- No risk of leakage or off-gassing.
- No risk of thermal runaway, due to effective functioning at temperatures of more than 105°C.
- More than 250 million kilometres covered by cars and electric buses since 2011, proving their operating safety.

INSENSITIVE TO CLIMATE CONDITIONS

- **No air-conditioning is required**, leading to enhanced performances, greater reliability and simplified maintenance.
- Easy transport and storage, even in hot external conditions, with no effect on the battery's lifespan.

STRONG PERFORMANCE IN THE LONG TERM

- **A constant storage capacity throughout the battery's lifespan.**
- An AC/AC efficiency of more than 89%, regardless of the outside temperature.
- A lifespan of more than 3,000 cycles at 80% DoD.
- Withstands free floating (100% charge) with no damage to the battery.

ENVIRONMENT-FRIENDLY

- Contains no solvents or rare earth metals.
- Cobalt-free.
- Can be recycled thanks to the use of lithium in metallic form.

bluestorage

Subsidiary of the Bolloré Group, Bluestorage sells energy storage solutions which integrate LMP® batteries, manufactured in our factories in France and Canada by BlueSolutions.

+200
installed
MWh

More than 200
installed MWh
all over the world

15
countries

Operational
applications
in 15 countries

25
off-grid
installations
in Africa

25 Off-grid installations
deployed in Africa
since 2014

250
million
kilometers

Traveled by our EV
and buses across the world



www.blue-storage.com

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bluestorage

100% SOLID ENERGY STORAGE SOLUTIONS

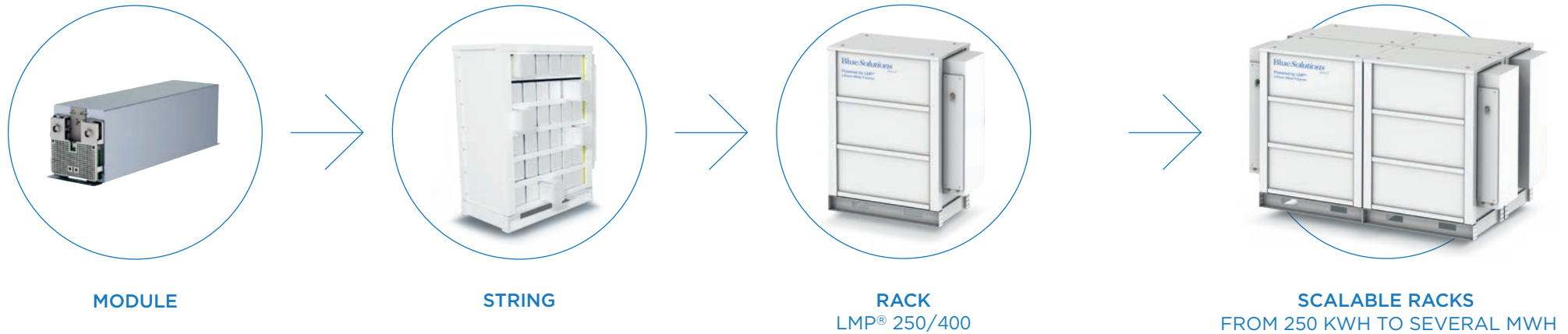


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BlueSolutions
Bolloré

An effective and safe energy storage technology: the LMP® 250/400 rack

Scalable racks from 250 kWh to several MWh, without requiring cooling system



The Bluestorage energy storage range is built around a rack, the basic feature of a dense and modular architecture.

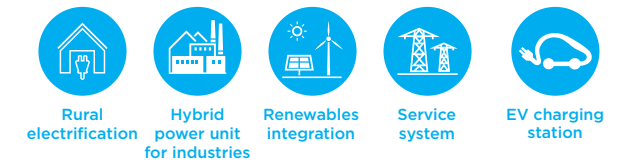
- It offers a capacity of 252 kWh (LMP® 250) to 392 kWh (LMP® 400), with an optimised design for simplified installation and maintenance.
- The rack comprises an airtight outer metal enclosure that integrates the battery modules and electronic safety components without any need for air-conditioning systems.
- Between two and eight racks can be assembled into clusters offering for each of them a modular storage solution with a capacity of up to 3.1 MWh.

Characteristics:

CAPACITY (kWh)	LMP® 250 252 kWh	LMP® 400 392 kWh
Voltage (V)	816 V	958 V
Width x Height x Depth	1,880 x 2,020 x 970 mm	2,241 x 2,752 x 1,160 mm
Weight	2,080 kg	3,062 kg
Storage ambient temperature	- 20°C to + 60°C	
Cooling of battery	No cooling system needed	
Cooling of control electronics		
Safety standard	EC compliant	
Cycles	> 3,000 cycles (according to the uses)	

Bluestorage offers:

Off-grid and on-grid energy storage applications.



A comprehensive service offer comprising:

- the solution's design and sizing,
- the customisation of the Energy Management System (EMS),
- transport and logistics,
- installation,
- remote supervision and on-site maintenance, relying on the global presence of the Bolloré Group.