



olenergies

OlenBox series

XL



ULTRA COMPACT



LIGHT WEIGHT



DESIGNED TO ENDURE



NO MAINTENANCE



USABLE IN ALL DIRECTIONS



UNLIMITED ASSEMBLY

WARRANTY 5 YEARS

TECHNICAL SHEET

POWERFUL

12 V

260 Ah

3.33 kWh

DURABLE

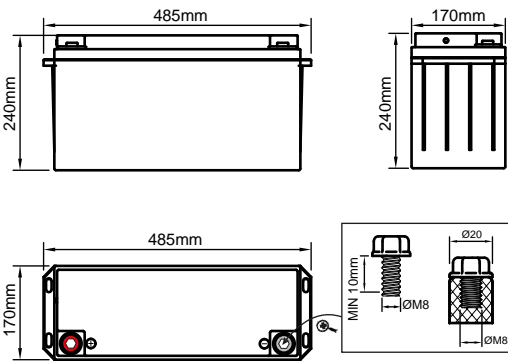
LITHIUM

LFP-HP

MADE IN FRANCE



DIMENSIONS



THE MOST INNOVATIVE BATTERY ON THE MARKET

Battery connected Bluetooth, Apple, Android	Control and monitor your battery using your smartphone! Use the application to configure, monitor, update and diagnose your battery. Real-time vision, complete control.
Remote monitoring Wi-Fi, peps	Your battery accessible 24/7 from every part of the world Supervise, manage and optimize your OlenBox remotely and detect potential problems by setting alerts and alarms. You are always in control from anywhere in the world.
Active balancing! BOOST, ACTIVE BALANCING	Boosted performance and lifetime BOOST is a unique active and passive balancing technology. This guarantees a permanent and optimal internal balancing. Energy is transferred to the cells that need it.
Extreme temperature resistant -30/+65°C, HEAT	Automatic preheating in very cold temperatures During the charge AND during the discharge! Don't worry about the outside temperature, the battery takes care of everything automatically! Working temperature -30°C +65°C Storage +15°C +35°C

MADE IN FRANCE INNOVATION

- ✓ High Performance Lithium LFP Technology
- ✓ Designed to last 20 years
- ✓ From 4,000 to 12,000 cycles (refer to curves)
- ✓ Smart-IoT Battery
- ✓ Fast charge
- ✓ Built-in safety mechanisms
- ✓ Designed for both hot and cold climates
- ✓ 60% lighter than a lead acid battery
- ✓ Compatible with MERLIN smartbox!

APPLICATIONS

- Lighting & Instrumentation**
Lighting, Camera, Energy case, Weather, Pumping...
- Martitime, mobility and robotics**
Boats, Recreational vehicles, Robots, Trolleys...
- Critical power supply**
UPS, Datacenter, Measurement, Medical...
- Solar storage**
Self-consumption, renewable energies...

QUALITY

- ✓ Certifications: CE, RoHS, UN38.3 (cells)
- ✓ Manufacturer warranty: 5 years
- ✓ Manufacturing country: France

SPECIFICATIONS

Electrical	Rated voltage: 13.0 V	Mechanical	Casing material: ABS
Rated capacity: 256.0 Ah	Energy: 3.33 kWh	Dimensions (W*D*H): 485*170*240 mm	Weight: 28.00 kg
Internal resistance: < 4.0 mΩ	Monthly self discharge: < 3 %	Terminals: M8	Ingress protection code: IP65
Charge	Charge efficiency: > 98 % @0.2C	Discharge	Discharge efficiency: > 96% @0.5C
Charge voltage: 14.5 ± 0.1 V	Charge mode: CC/CV	Direct discharge current: 260 A	Maximum current 10 sec.: 780 A
Rated charge current: 130.0 A	Charge cut-off current: 0.05C	Minimum voltage: 10.0 V	Configurable thresholds: Yes
Lead-acid chargers: Compatible		Exceeding power: On quotation	

Cluster your batteries wirelessly, add a display, pilot relays or add a GPS with MERLIN smartbox!



SMART BMS INSIDE



Lead acid Plug-& Play



Charge: 130A -30°C | +50°C



Discharge: 260A -30°C | +65°C



Rated values 13V | 256Ah



Cells conform to UL STD 1642



RoHS



Li-ion



MERLIN is sold separately

CURVES PROFILES



SAFE
DURABLE
POWERFUL

- ✓ 4,000 cycles @80% DoD @80% SoH
- ✓ 8,000 cycles @70% DoD @70% SoH
- ✓ 12,000 cycles @60% DoD @80% SoH



Longest service life on the market
Our systems are design to last up to 25 years, providing the lowest Total Cost of Ownership (TCO).



Eco-friendly
Circular Economy product.
Recyclable battery containing neither lead nor cobalt.



100% secure
LFP-HP chemistry is intrinsically safe and the BMS protect the battery. No risk of fire or deflagration.



Onboard intelligence
Our intelligent BMS detects any anomaly.
Connected batteries = 24/7 monitoring & supervision.



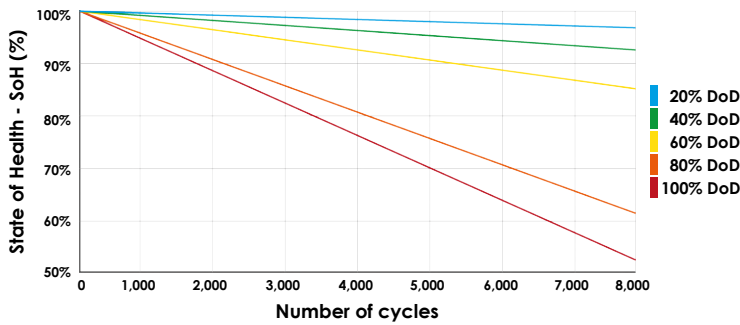
Fast charge
There is no need to follow a sequential curve.
Charging efficiency is close to 100%.



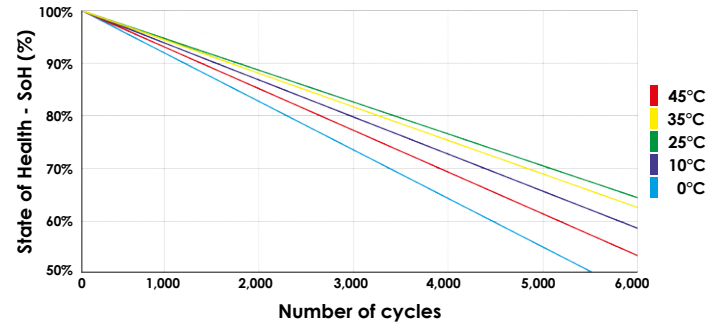
Extreme temperature resistant
Olenergies systems are always the technological best choice for both hot and cold environments.

LIFETIME CURVES

State of Health (SoH) related to the number of cycles for different Depths of Discharge (DoD) @1C and 25°C

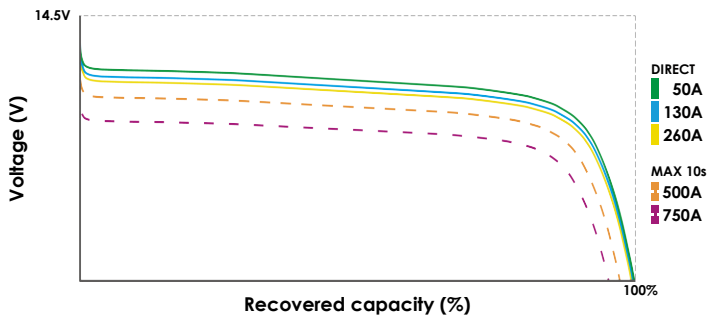


State of Health (SoH) related to the number of cycles for different temperatures @1C and 100% DoD

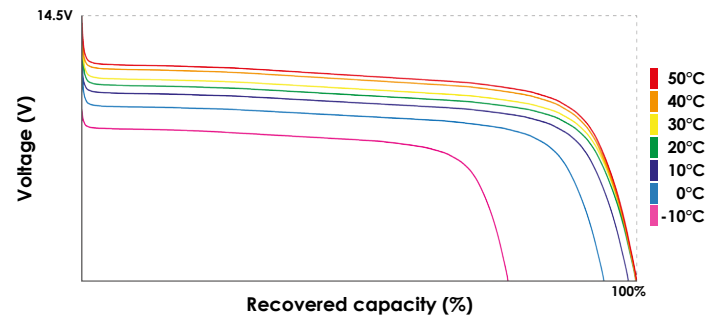


DISCHARGE CURVES

Voltage curves @25°C for various discharge currents

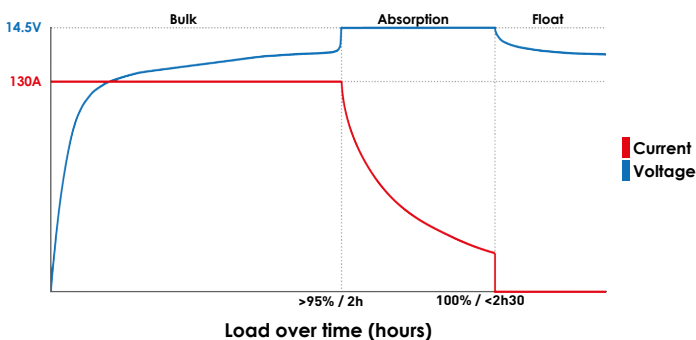


Voltage curves @C/5 for various temperatures



CHARGE CURVE

Constant Current/ Constant Voltage (CC/CV) recommended charge



SELF-DISCHARGE CURVE

Self-discharge according to time and storage temperature

