

OlenBox series (LMax















TECHNICAL SHEET

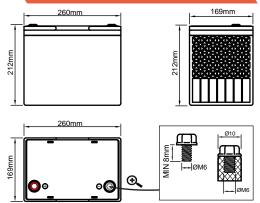


MADE IN FRANCE





DIMENSIONS



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...



UPS, Datacenter, Measurement, Medical...

Critical power supply

Solar storage Self-consumption, renewable energies...

QUALITY

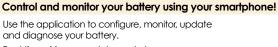
- ✓ Certifications: CE, RoHS, UN38.3 (cells)
- Manufacturer warranty: 5 years
- Manufacturing country: France

THE MOST INNOVATIVE BATTERY ON THE MARKET

Battery connected







Real-time vision, complete control.

Remote monitoring





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!





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





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

+15°C |+35°C

SPECIFICATIONS

Electrical Rated voltage Rated capacity Energy Internal resistance Monthly self discharge

Charge efficiency

Rated charge current

Lead-acid charger

Charge cut-off current

Charge voltage

Charge mode

Charge

26.0 V 64.0 Ah 1.66 kWh $< 27.0 \, \text{m}\Omega$ < 3 %

> 98 % @0.2C

29.0 ± 0.1 V

Compatible

CC/CV

35.0 A

0.05C

Mechanical Casing material Dimensions (W*D*H) Weight **Terminals** Ingress protection code

ABS 260*169*212 mm 13.00 kg

M6 IP65

Discharge

Discharae efficiency Direct discharge current Maximum current 10 sec. Minimum voltage Configurable thresholds Exceeding power

> 96% @0.5C 65 A ≰∑∍

195 A 🖒 🏠 20.0 V Yes On quotation

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







MERLIN is sold separately













-30°C I +65°C













CURVES PROFILES





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



Golenereies*



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%.

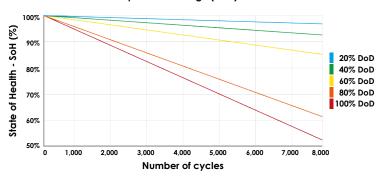


Extreme temperature resistant

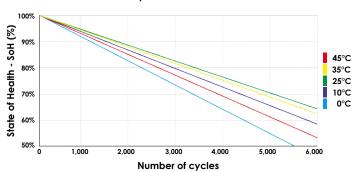
Olenergies systems are always the technological best choice for both hot and cold environments.

LIFETIME CURVES

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

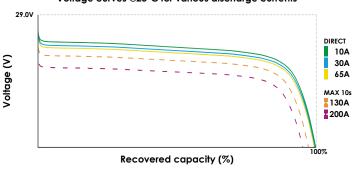


State of Health (SoH) related to the number of cycles for different temperatures @1C and 100% DoD

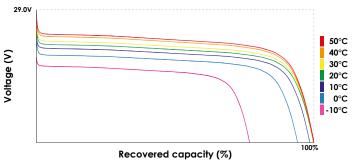


DISCHARGE CURVES

Voltage curves @25°C for various discharge currents

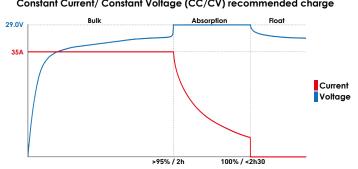


Voltage curves @C/5 for various temperatures 29.0V



CHARGE CURVE

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



Load over time (hours)

SELF-DISCHARGE CURVE

Self-discharge according to time and storage temperature

