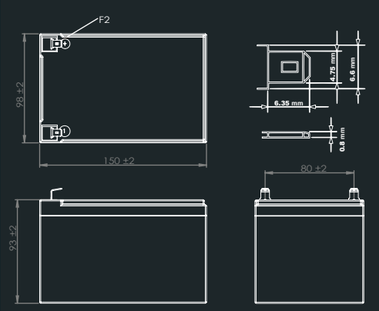
OlenBox serie 1+

olenergies

DATASHEET

LITHIUM POWER | LiFePo4 | 12V | 12Ah | 154Wh | ULTRA SECURE | 100% ECO

PHYSICAL DIMENSION



SPECIFICATION

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	12Ah
	Energy	153.6Wh
	Internal Resistance	≤30mΩ
	Cycle Life	>3500 cycles @1C 80%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
Standard Charge	Efficiency of Discharge	96~99% @1C
	Charge Voltage	14.5±0.1V
	Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0.02C (CC/CV)
	Nominal Charge Current	12A
	Max. Charge Current	12A
	Charge Cut-off Voltage	14.5V±0.2V
Standard Discharge	Continuous Current	30A
	Max. Pulse Current	60±10A (Duration: 10±5ms)
	Discharge Cut-off Voltage	10V
Environmental	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 65 °C (-4F to 150F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP65
Mechanical	Cell & Method	18650
	Plastic Case	ABS
	Dimensions (mm.)	151*98*95mm
	Weight (kg.)	1.66kg
	Terminal	Faston635
	Protocol (optional)	SMBus/RS485/RS232
	Battery Display (optional)	LED / SOC / Voltage / Capacity

APPLICATION

- ✓ Electric vehicles / RV / Buggy / Golf cart...
- ✓ Marine / Defense / Construction
- ✓ Solar & wind energy / Hybrid Systems
- ✓ Backup Power / Telecommunication / Data-center
- ✓ Aerial Work Plateform / Floor Machine
- ✓ Medical equipment / Lighting
- ✓ Home storage / Renewable Energies
- ✓ Robots / Instrumentation

2X POWER
3X LIGHTER
4X LIFE CYCLE

WARNING : RISK OF SMOKE, FIRE OR BURNS

1. DO NOT SHORT THE BATTERY TERMINALS
2. DO NOT INCINERATE, CRUSH, OR DISASSEMBLE
3. DO NOT REVERSE POLARITY FROM CHARGER TO BATTERY
4. DO NOT USE DAMAGED BATTERY

BMS INSIDE

Charge (CC/CV): 12V
Maximum Charge Current: 6A
Operating Temperature: -20°C ~ 65°C

ECO PRODUCTS

CELLS CONFORM TO UL STD 1642 | 12 LITHIUM | RoHS | CE

SPECIFICATIONS

olenergies

✓ **Powerful and environmentally friendly products**
Our products are very secure and designed to last. In all situations Olenergies batteries represent the best performance/price ratio compared to any other electrochemical technology.

Lifetime
Our systems are designed for a minimum of 3,000 cycles or many years of use!

Eco friendly
No toxic or dangerous elements, for man or the planet, so no cobalt and never lead-acid

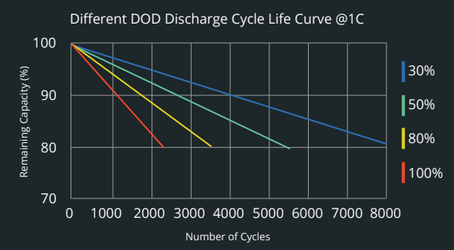
100% secured
The cell is intrinsically safe; no risk of fire or explosion

On-board intelligence
Right to error: our BMS is a "safeguard" that will intervene in the event of an anomaly

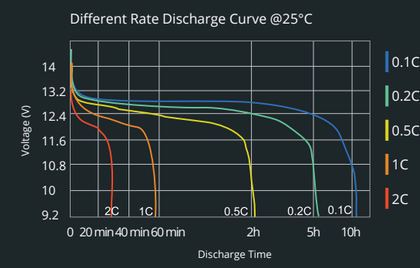
Fast charging
It is not necessary to respect a load curve and this is done without losses (efficiency close to 100%)

From -20°C to +65°C
Olenergies systems are still the technological choice for harsh environments

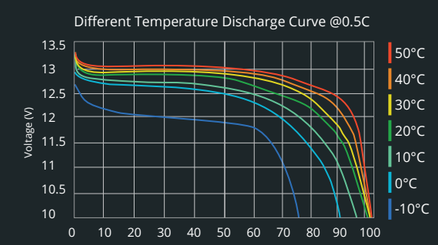
CYCLE LIFE CURVE



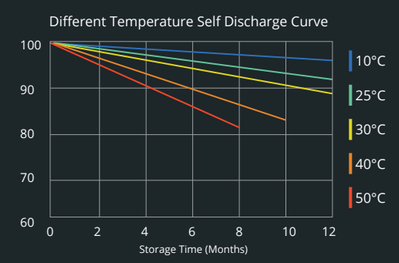
DIFFERENT RATE DISCHARGE CURVE



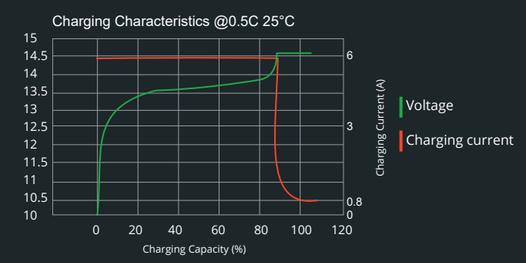
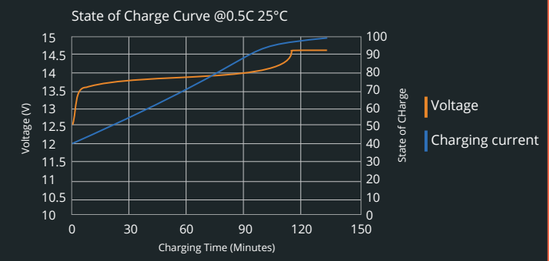
DIFFERENT TEMPERATURE DISCHARGE CURVE



SELF DISCHARGE CHARACTERISTICS CURVE



CHARGING CHARACTERISTICS



STATE OF CHARGE CURVE