

DATASHEET

LITHIUM POWER
LiFePo4

12V

51Ah

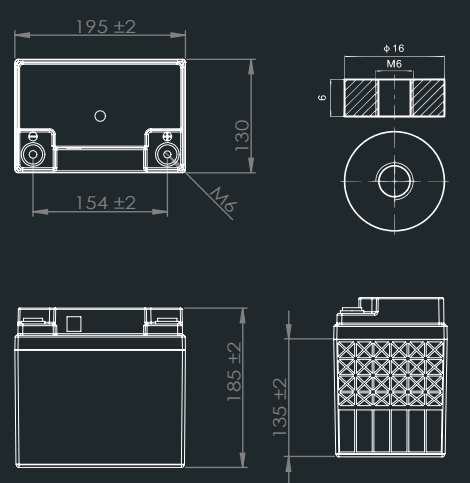
655Wh

ULTRA SECURE
100% ECO

DISPLAY BOARD



PHYSICAL DIMENSION



SPECIFICATION

Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	51.2Ah
	Energy	655.36Wh
	Internal Resistance	≤30mΩ
	Cycle Life	>3500 cycles @1C 80%DOD
Standard Charge	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	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)
Standard Discharge	Nominal Charge Current	@0.3C = 15A
	Max. Charge Current	@0.4C = 20A
	Charge Cut-off Voltage	14.5V±0.2V
Environmental	Continuous Current	20A
	Max. Pulse Current	25A
	Discharge Cut-off Voltage	10V
Mechanical	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
	Cell & Method	26650
Application	Plastic Case	ABS
	Dimensions (mm.)	195*130*185mm
	Weight (kg.)	6.3kg
	Terminal	M6
	Protocol (optional)	SMBus/RS485/RS232
	Battery display board	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 Platform / 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



Charge (CC/CV): 14.6V
Maximum Charge Current: 20A
Operating Temperature: -20°C - 65°C



SPECIFICATIONS

✓ **Powerful and environmentally friendly products**
 Our products are very secure and designed to last. In all situations Olennergies 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

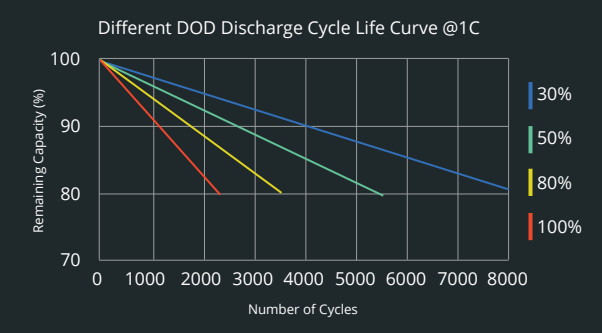
100% secured
The cell is intrinsically safe; no risk of fire or explosion

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

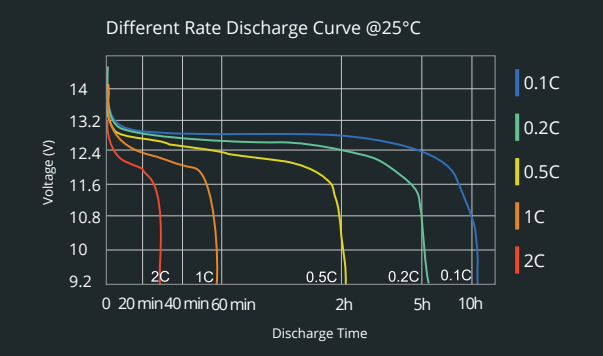
Fast charging
It is not necessary to respect a load curve and this is done without losses (efficiency close to 100%)

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

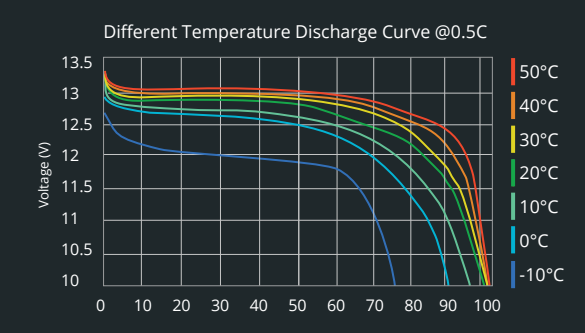
CYCLE LIFE CURVE



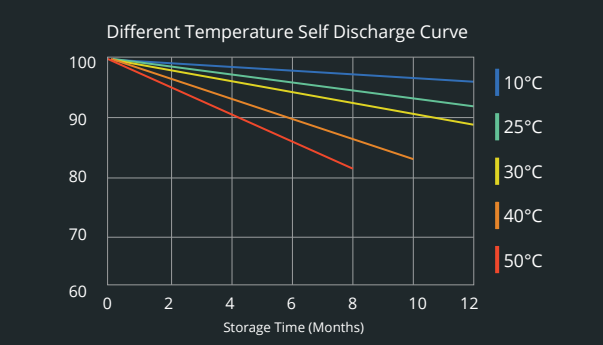
DIFFERENT RATE DISCHARGE CURVE



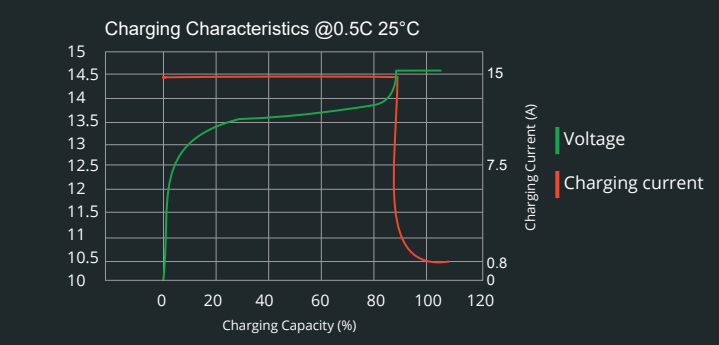
DIFFERENT TEMPERATURE DISCHARGE CURVE



SELF DISCHARGE CHARACTERISTICS CURVE



CHARGING CHARACTERISTICS



STATE OF CHARGE CURVE

