



# **Technical sheet**

# **ULTIMATRON LiFePO4 Smart BMS Lithium Battery UBL-12-50E**

Compared with traditional batteries, our lithium iron phosphate batteries (LiFePO4) have many advantages:

- 5 years manufacturer's warranty
- The safest technology, without risk of fire or explosion
- Long service life
- Constantly improving storage capacity
- High stability even under extreme loads
- No memory effect, no need for full charge and discharge cycles
- High performance even under extreme conditions
- Deep and regular discharge and charging efficiency
- Small size and light weight



To allow the control and the charge of the different elements of an accumulator battery and to protect it against overcharging, overvoltages and overheating.

#### **ELECTRICAL PERFORMANCE**

12.8V
50Ah
300min
640Wh
≤15 mΩ @ 50% SOC
<3% / Month
>6000 at 80% DoD

### **DISCHARGE PERFORMANCE**

Maximum continuous Discharge Current	100A
Peak Discharge Cut-Off Current	300A (200~500ms)
Discharge Cut-Off Voltage	10V (2000 ms)
Reconnect Voltage	>11.2V
Short Circuit Protection	1000-2000A ± 400A (200 ~ 800 μs)

#### **TEMPERATURE PERFORMANCE**

Discharge Temperature	-20 ~ 75 °C
Charge Temperature	0 ~ 50 °C
Storage Temperature	-5 ~ 35 °C



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Note: It can be connected in parallel within 4 pcs, series connection is not allowed.

#### **CHARGE PERFORMANCE**

Recommended Charge Current	10A
Maximum Charge Current	25A
Recommended Charge Voltage	14.6V
Charge Cut-Off Voltage	14.6V (2000ms)
Reconnect Voltage	≤13.8V
Balancing Voltage	>12.8V

## **MECHANICAL PERFORMANCE**

Weight	5.7kg
Terminal Type	M6
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Ingress Protection Code	IP65

#### COMPLIANCE

	CE
Certifications	UN38.3
	UL1642 & IEC62133
Shipping Classification	UN 3480, CLASS 9



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