

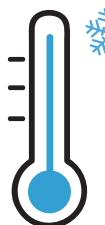


ULTIMATRON
FRANCE

5 YEARS
WARRANTY

Technical sheet

ULTIMATRON LiFePO4 Smart BMS Lithium Battery
UBL-24-50 (with Heater)



-35°C



Note: Max. 2 Series and 4 Parallel connection.

Integrated Battery Management System (BMS)

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



Heating Features

- ★ The integrated heating function starts automatically at temperatures below 0°C when an external charging current (around 7A) is applied. The integrated heating function will not consume the energy from the battery.
- ★ Integrated Heating foils, the battery can be charged at the extreme environment in -35°C.

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

Integrated Bluetooth 4.0 monitoring



You have all important battery data always on your smartphone or tablet. The application displays the data in real time.

MARQUE FRANÇAISE



**ULTMATRON
FRANCE**

TECHNICAL SHEET

UBL SMART BMS SERIE 25.6V

ULTMATRON LiFePO4 Smart BMS Lithium Battery UBL-24-50(with Heater)

ELECTRICAL PERFORMANCE

Nominal Voltage	25.6V
Nominal Capacity	50Ah
Capacity @ 20A	162min
Energy	1280Wh
Resistance	$\leq 15 \text{ m}\Omega$ @ 50% SOC
Self Discharge	<3% / Month
Number of Cycles	>6000 @ 80% DoD

CHARGE PERFORMANCE

Recommended Charge Current	15A
Maximum Charge Current	25A
Recommended Charge Voltage	29.2V
Charge Cut-Off Voltage	29.2V (2000ms)
Reconnect Voltage	$\leq 27.6\text{V}$
Balancing Voltage	>25.6V

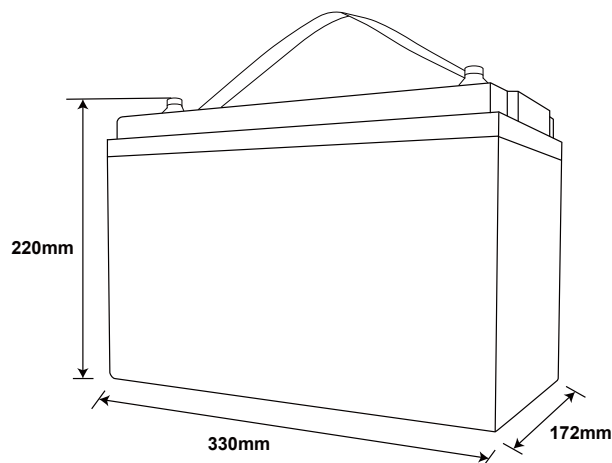
DISCHARGE PERFORMANCE

Maximum continuous Discharge Current	100A
Peak Discharge Cut-Off Current	150A (200~500ms)
Discharge Cut-Off Voltage	20V (2000 ms)
Reconnect Voltage	>22.4V
Short Circuit Protection	1000-2000A $\pm$ 400A (200 ~ 800 μs)

TEMPERATURE PERFORMANCE

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

DIMENSION



Dimension with terminals L330 * W172 * H220mm

MECHANICAL PERFORMANCE

Weight	11.10kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	ABS
Ingress Protection Code	IP65
Bluetooth	Bluetooth 4.0 with smartphone App

COMPLIANCE

Certifications	CE UN38.3 UL1642 & IEC62133 ECE R10
Shipping Classification	UN 3480, CLASS 9

ULTMATRON FRANCE

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