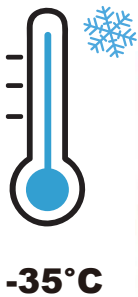# Technical sheet

ULTIMATRON LiFePO4 Smart BMS RV Underseat Lithium Battery
ULM-12-200H (with Heater)

-35°C

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Note: Series and parallel connection for 12V, 24V, 36V, 48V applications.

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

4.0 Bluetooth Low Energy

ANDROID APP ON Google play

Download on the App Store

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

ULTIMATRON FRANCE

ULTIMATRON LiFePO4 Smart BMS RV Underseat Lithium Battery ULM-12-200H (with Heater)

ELECTRICAL PERFORMANCE

Nominal Voltage	12.8V
Nominal Capacity	200Ah
Capacity @ 40A	300min
Energy	2560Wh
Resistance	≤15 mΩ @ 50% SOC
Self Discharge	<3% / Month
Number of Cycles	>6000@80%D.o.D

CHARGE PERFORMANCE

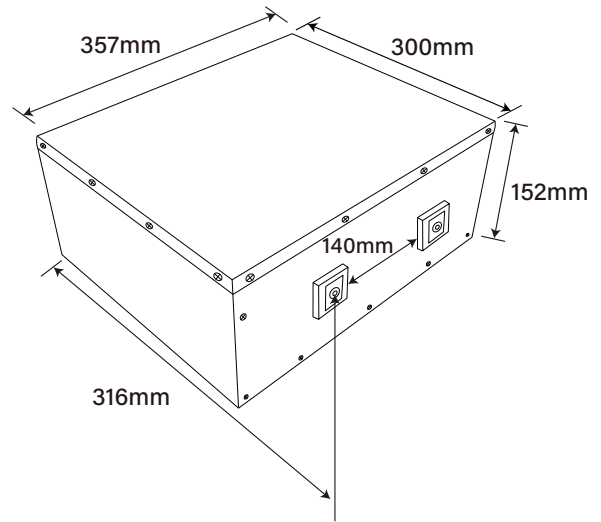|	
Recommended Charge Current	60A
Maximum Charge Current	100A
Recommended Charge Voltage	14.6V
Charge Cut-Off Voltage	14.6V (2000ms)
Reconnect Voltage	≤13.8V
Balancing Voltage	>12.8V

DISCHARGE PERFORMANCE

Maximum continuous Discharge Current	150A
Peak Discharge Cut-Off Current	450A (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 ºC
Charge Temperature	0 ~ 50 ºC ❄
Heater Working Temperature	-35 ~ 5 ºC ❄
Storage Temperature	-5 ~ 35 ºC

DIMENSION

357mm 300mm 152mm 140mm 316mm

Dimension with terminals	L357 * W316 * H152 mm

MECHANICAL PERFORMANCE

Weight	21.5kg
Terminal Type	M8
Terminal Torque	80 ~ 100 in-lbs (9 ~ 11 N-m)
Case Material	Metal
Ingress Protection Code	IP62
Bluetooth	Bluetooth 4.0 with smartphone App
Heat foil	80W

COMPLIANCE

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