



### **Technical sheet**

ULTIMATRON LiFePO4 Smart BMS RV Underseat Lithium Battery ULM-12-280H (with Heater)



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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









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



## **TECHNICAL SHEET**

**ULM SMART BMS SERIE 12.8V** 

## **ULTIMATRON LiFePO4 Smart BMS RV Underseat Lithium Battery ULM-12-280H (with Heater)**

#### **ELECTRICAL PERFORMANCE**

Nominal Voltage	12.8V
Nominal Capacity	280Ah
Capacity @ 40A	420min
Energy	3584Wh
Resistance	≤15 mΩ @ 50% SOC
Self Discharge	<3% / Month
Number of Cycles	>6000@80%D.o.D

#### **CHARGE PERFORMANCE**

Recommended Charge Current	80A
Maximum Charge Current	140A
Recommended Charge Voltage	14.6V
Charge Cut-Off Voltage	14.6V (2000ms)
Reconnect Voltage	≤13.8V
Balancing Voltage	>12.8V

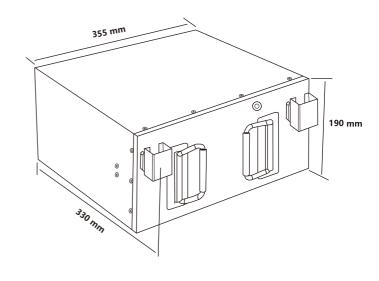
#### **DISCHARGE PERFORMANCE**

Maximum continuous Discharge Current	200A
Peak Discharge Cut-Off Current	600A (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
Heater Working Temperature	-35 ~ 5 °C 🐞
Storage Temperature	-5 ~ 35 °C

#### **DIMENSION**



Dimension L355 \* W330 \* H190 mm

#### **MECHANICAL PERFORMANCE**

31kg
M8
80 ~ 100 in-lbs (9 ~ 11 N-m)
Metal
IP62
Bluetooth 4.0 with smartphone App
80W

#### **COMPLIANCE**

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

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