



## **Technical sheet**

ULTIMATRON LiFePO4 Smart BMS Lithium Battery UBL-12-300-PRO

# 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

## **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.







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

## 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 Lithium Battery UBL-12-300-PRO**

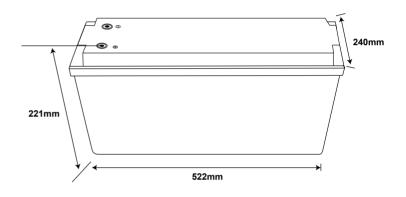
#### **ELECTRICAL PERFORMANCE**

| Nominal Voltage  | 12.8V           |
|------------------|-----------------|
| Nominal Capacity | 300Ah           |
| Capacity @ 40A   | 450min          |
| Energy           | 3840Wh          |
| Resistance       | ≤15mΩ @ 50% SOC |
| Self Discharge   | <3% / Month     |
| Number of Cycles | >6000@80%D.o.D  |
|                  |                 |

#### **CHARGE PERFORMANCE**

| Recommended Charge Current | 90A            |
|----------------------------|----------------|
| Maximum Charge Current     | 150A           |
| Recommended Charge Voltage | 14.6V          |
| Charge Cut-Off Voltage     | 14.6V (2000ms) |
| Reconnect Voltage          | ≤13.8V         |
| Balancing Voltage          | >12.8V         |

#### **DIMENSION**



| Dimensions | L522 * W240 * H221mm |
|------------|----------------------|

#### **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<br>(200 ~ 800 μs) |

### **MECHANICAL PERFORMANCE**

| Weight                  | 28.25kg                           |
|-------------------------|-----------------------------------|
| 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 |
|                         |                                   |

#### **TEMPERATURE PERFORMANCE**

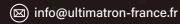
| Discharge Temperature | -20 ~ 75 °C |
|-----------------------|-------------|
| Charge Temperature    | 0 ~ 50 °C   |
| Storage Temperature   | -5 ~ 35 °C  |

#### **COMPLIANCE**

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

**ULTIMATRON FRANCE** 

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