



PART NUMBER: ULE12-10

CHEMISTRY: LiFePO4

FEATURES & BENEFITS

- Long cycle life
- Maintenance Free
- Temperature stability
- Low-self-discharge rate
- Ideal for portable devices
- Comprehensive safety mechanism
 - High energy density and light weight design
- Sophisticated Battery Management System

ULE12-10 LITHIUM-ION BATTERY

ULTRASONIC ENERGY: PRECISION POWER FOR PEAK PERFORMANCE

ULTRASONIC ENERGY represent the forefront of advanced energy storage technology, designed for both reliability and performance. Each unit is equipped with a built-in Battery Management System (BMS), ensuring optimal cell balancing and protecting the pack from hazards such as overcharge, over-discharge, over-current, short circuits, and excessive temperatures. These safety features, coupled with an ultra-low self-discharge rate, contribute to a significantly extended lifespan and enhanced product longevity.

ULTRASONIC ENERGY are engineered for fast charging and discharging, offering superior efficiency. With an IP65 rating, these batteries are fully protected against dust and water ingress, making them ideal for demanding environments. **ULTRASONIC ENERGY** are the perfect choice for applications where safety, durability, and high-performance energy storage are paramount.



CERTIFICATIONS

■ UL1642 (Cell) ■ IEC62133 (Cell)

■ IEC62619 (Cell)

CE(Cell)

UN38.3 (Cell / Pack)

ROHS (Cell)

MARKET APPLICATION













Lighting

Solar &Wind

Robotics L

Light EV

Low-speed car

Golf cart



ELECTRICAL CHARACTERISTICS

Nominal Voltage	12.8V
Nominal Capacity	10Ah@0.2C
Nominal Energy	128Wh
Min. Capacity	9.8Ah@0.2C
Internal Resistance	≤35mΩ
Cycle Life	2000 Cycles @ 2A Charging/Discharging ,Until 70% Capacity
Self Discharge	≤3.5% per month at 25°C

STANDARD CHARGING & DISCHARGE

Max. Charging Voltage		14.0~14.4V
Charging Mode		CC-CV
Charging Current		2A
Max. Charging Current		5A
Discharging Current	60	5A
Max. Continuous Discharging Current		10A
Max. Pulse Discharging Current		20A(<3S)
Discharging Cut-off Voltage		10.8V

OPERATING CONDITION

Charge Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C(-4°F to 140°F) @60±25% Relative Humidity
Storage Temperature	0°C to 45°C(32°F to 113°F) @60±25% Relative Humidity

STRUCTURE

Casing	Plastic
Dimension(L*W*H)	151*65*94mm
Weight	Approx.1.26Kgs
Terminal	F2
Water Dust Resistance	IP65

CHARACTERISTIC CURVES





