



PART NUMBER: ULE12-84

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

ULE12-84 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



Light EV



Low-speed car



Golf cart

ELECTRICAL CHARACTERISTICS

Nominal Voltage	12.8V
Nominal Capacity	84Ah@0.2C
Nominal Energy	1075.2Wh
Min. Capacity	82.3Ah@0.2C
Internal Resistance	≤20mΩ
Cycle Life	2000 Cycles @ 16.8A 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	16.8A
Max. Charging Current	42A
Discharging Current	42A
Max. Continuous Discharging Current	84A
Max. Pulse Discharging Current	210A(<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)	260*169*210mm
Weight	Approx.10.3Kgs
Terminal	M8
Water Dust Resistance	IP65

CHARACTERISTIC CURVES

