

LiFeBlue Battery

Lithium Iron Phosphate
Deep Cycle Battery

ULTIMUS LBU-200 Data Sheet

Battery Voltage 13.4V | Capacity 200AH | Energy Storage 2600WH



Specifications @ 77°F	LiFeBlue LBU-200
Capacity	200AH
Nominal Voltage	12.8 Volts
Full Charge Resting Voltage	13.35 Volts
Energy Storage	2600 Wh
Run Time @ 25 Amp Load	8 Hours @ 77°F
Self Discharge Rate	14mA BLE on; 500µA Sleep
Data Communications	Bluetooth BLE 4.0 or higher; CAN Bus
Charge	
Charging Temperature Range	-4°~140°F
Absorb Voltage, CV (recommended)	14.5 Volts +/- 0.2
Float Voltage, CV Range	13.8 Volts +/- 0.2V
CV, Absorb Time (recommended)	15 minutes
Maximum Charge Current, @77°F	200 Amps
Recommended Current	5 to 100 Amps
Full Charge, SoC Calibration	Perform Weekly
Full Charge Current	<2A/100AH
Heater Current	12 Amps
Heater Controller	<32°F On; >40°F Off
Discharge	
Discharge Temperature Range	-4°F~140°F (-20°C~60°C)
Discharge Current	200 Amps Continuous
Discharge Current, 5 seconds	800 Amps

Battery Protection	LiFeBlue LBU-200
Over Voltage, any cell, Open	3.75 Volts, ±0.03 Volts
Over Voltage, Release	3.6 Volts, ±0.05 Volts
Over Discharge, any cell, Open	2.5 Volts, ±0.05 Volts
Over Discharge, all cells, release	2.8 Volts, ±0.05 Volts
Over Current	>400 Amps; 5 Seconds
Over Current Release	60 Seconds
Over Temperature	149°F (65°C)
Over Temperature release	131°F
Low Temperature Charge, Open	<32°F
Low Temperature Charge, Release	>40°F
MOSFET Over Temperature, Open	212° F
MOSFET Over Temp, Release	158° F
Short Circuit Protection	>1000A for 500µs
Short Circuit Protection release	Remove Load, 30 seconds
Mechanical	
Length	19.1"
Width	6.7"
Height	9.25
Weight	51 Pounds
Enclosure Rating	IP67
Hardware	M8 bolt, washer, lock washer, Fits 5/16" Ring
Hardware Torque	80 in-lb. (9 N-m)
Miscellaneous	
Battery in Parallel	16
Battery in Series	4 (2S4P, 3S4P, 4S4P)
Cycle Life	>4500 Cycles
Internal resistance (50% SoC)	≤20mΩ @1kHz AC
Recommended Storage Method	50% SoC; <75% RH, Power Switch Off, Check Voltage, charge if below 13.0V
Storage temperature Range	20°F~95°F (cooler is better)
Internal resistance (50% SoC)	≤20mΩ @1kHz AC
Certifications	UL1973; UL1642; IEC62133; TUV CB; CE; UN38.3; ISO9001-2009; ISO14001; OHSAS18001; TS16949

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SAFETY WARNING

Read and follow all instructions. Improper use or handling may result in damage or injury to people or property.

- Loose connections or inadequately sized bus bars, connectors or cables may cause over-heating and are a potential fire hazard.
- Do not open the battery.
- Do NOT use, charge or discharge damaged, defective or deformed batteries.
- Stop use and remove damaged, defective or deformed batteries to a safe outdoor location.
- Do not use temperature compensation with any battery charger.
- Battery must not be installed near any heat source.
- Do not incinerate or expose the battery to fire.
- Do not connect the battery in reverse polarity.
- Do not short battery terminals.
- Do not deform, crush or puncture the battery.
- Do not mix with lead acid or any other battery chemistry.

INSTALLATION INSTRUCTIONS

- Batteries are essentially water proofed (IP-67) but should ideally be installed in a dry compartment free from spraying water.
- Prevent debris or loose items from contacting the battery terminals or cables. Keep away from children and pets. Do not expose to direct sunlight.
- Battery must be installed in the upright position (battery case top facing up) and securely fastened to avoid any movement of the battery, terminal connectors or wiring.
- Terminal bolts must be tightened properly before use. Torque each terminal bolt to 9 N-m or 80 in-lb. Do not over tighten. Check bolt torque periodically.
- Use a terminal post or bus bar to connect batteries in parallel if there are more than 2 ring terminals on any battery terminal.
- Cables must be free of acid from previous use and be kept clean and dry.
- Always install proper circuit protection. A fuse, circuit breaker or other current interruption device, properly sized for each branch circuit that is connected to a LiFeBlue battery, is required.
- Fully charge the battery before initial use. Fully charge the battery at least every 7 days. Do not leave the battery fully discharged more than 5 days.
- Each LiFeBlue battery includes an internal Battery Management System (BMS) to protect the battery in case the limits of safe operation are exceeded.
- You must use appropriate voltage regulators for each charge source.
- The user is responsible for the proper and safe operation of the battery by limiting voltage, current and temperature to the normal operation values found on this data sheet.
- LiFeBlue Battery shall not be used in connection with life support systems, life saving or other medical equipment or devices. Use of LiFeBlue Battery with this type equipment is at your own risk.
- If the battery becomes very hot, has a smell, or the case becomes distorted or abnormal looking, stop using immediately and disconnect the battery. Carefully move the battery to a safe outdoor location.