

## LFP 24V-TEL 100/150Ah BATTERIES

### BATBLUTEL24 SERIES



### Description

BLUNERY's BATBLUTEL24 LFP (Lithium-Iron-Phosphate) battery series is designed for stationary energy, for application in the telecommunications, industrial, solar, etc. markets.

Energy storage and other applications require highly reliable power supplies. Thanks to advanced lithium iron phosphate (LFP) technology, the BATBLUTEL24 series lithium ion battery provides high energy capacity with compact size, extremely long life cycle with high safety, and can be used in various environments without compromising performance.

### Main Features

- **EXTENDED LIFE CYCLES.** Using proven LFP battery cells, the battery can provide a life of +4000 cycles under standard operating conditions.
- **HIGH SECURITY.** Integrated smart BMS protects battery cells from: overcharge, over discharge, high temperature, short circuit, etc.
- **HIGH ENERGY DENSITY.** By using high-capacity LFP battery cells and an optimized structural design, the battery can achieve an energy density of 120Wh / Kg - 130Wh / Kg, which is 4 times better than traditional lead-acid batteries.
- **EXTENDABLE CAPACITY.** With the support of the BMS power electronics, batteries can be connected in parallel to increase installed capacity.
- **STRONG UPDATE.** With abundant communication ports, and compatible with a variety of protocols, the battery can be upgraded for future Internet (IOT) demands.
- **ENVIRONMENTALLY FRIENDLY.** All components are made of materials that respect the planet.

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### SPECIFICATIONS

SPECIFICATIONS	BATBLUTEL24100	BATBLUTEL24150
ELECTRICAL		
MAIN		
Nominal Voltage [VDC]	25.6	
Cathode Plate Technology	LFP (3.2Vpc)	
Nominal Capacity [Ah]	100	150
Nominal Capacity [Wh]	2560	3840
Standard Discharge Current [Amps]	100 (1C)	150 (1C)
Standard Charge Current [Amps]	20 (0.2C) / 100 (1C)	30 (0.2C) / 150 (1C)
Maximum DoD [%]	100	
EXTENDED		
Working Voltage Range [VDC]	21.6 - 29.20	
Maximum Voltage “OVP” [VDC]	29.20	
Minimum Voltage “LVD” [VDC]	20	
Charge Voltage Range [VDC]	29.2 ± 0.2	
Maximum Recharge Current Protection [Amps]	130	
Shortcircuit Protection	Yes	
Cycle Life [Cycles]	> 4000 @1C, 25°C, 80%DoD	
Expected Life Span [Years]	20	
OTHERS		
Communications	RS485, Optional: RS232, CAN	
Autodischarge [%/month]	2	
Consumption in Sleep-Mode [mAmps]	<= 50	
Internal Heater Matt	Optional	
MECHANICAL		
Dimensions, H x W x D [mm/inches]	176 x 440 x 300 / 6.92 x 17.32 x 11.81	222 x 440 x 320 / 8.74 x 6.92 x 12.59
Weight [Kg/ Lbs]	29 / 63.90	39.4 / 86.90
Terminal Block Size	Positive & Negative: M8	
Paint	Green Powder Coat	
Carry Handles - Front	Yes	
ENVIRONMETAL		
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge)	
	(Recharge) 0 a +60 / +32 a +140; Optional: -20 to +60 / -4 to +140 with heaters	
Storage Temperature [°C/°F]	-5 to +45 / +23 to +113	
Relative Humidity - Non Condensing [%]	5 to 95	
Altitude [masl]	4000	