

LFP 48V-TEL 100/150/200 Ah BATTERIES

BATBLUTEL48 SERIES



Description

The series of LFP (Lithium-Ion-Phosphate) BATBLUTEL48 batteries of BLUNERY are a new environmentally friendly backup power modules, specially designed for Telecommunications market. They have a noticeable superior life span, extra reduced size, very light weight and ready for strong environmental working conditions. These batteries are the ideal solution for all the back-up needs in head-End, radio base stations, microcells, etc.

Their high performance LFP cells and the proven built-in BMS' design, make these batteries fully compatible with all the rectifiers' manufacturers in today's marketplace.

Multiple batteries can be connected in parallel to expand capacity, so longer back-up times can be obtained. Old and heavy lead-acid VRLA batteries can be quickly and securely replaced during any maintenance stage. No additional procedures are required, as this change is totally transparent for any installation.

Main Features

- Unique wide working (Charge) temperature range.
- The protections functions included in the embedded BMS (battery management system) are: over-discharge, over-charge, over-current and high/low temperature, etc.
- The BMS can automatically manage Charge and Discharge states and balance each cell's current and voltage.
- More than 5000 times cycle life.
- Very small size with light weight, specially designed for retrofit any lead-acid battery.
- Its 100% deep of discharge "DoD" allows for an optimal design, no need to oversize them to meet the required back-up times.
- Includes local and remote access RS232, RS485 y CAN ports to get the battery's status, firmware upgrade, etc.

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SPECIFICATIONS

	BATBLUTEL48100	BATBLUTEL48150	BATBLUTEL48200
ELECTRICAL			
MAIN			
Nominal Voltage [VDC]	48		
Cathode Plate Technology	LFP (3,2Vpc)		
Nominal Capacity [Ah]	100	150	200
Nominal Capacity [Wh]	4800	7200	9600
Maximum Discharge Current [Amps]	100	150	150
Maximum Charge Current [Amps]	100	150	200
Maximum DoD [%]	100		
EXTENDED			
Working Voltage Range [VDC]	41 - 54		
Maximum Voltage "OVP" [VDC]	56		
Minimum Voltage "LVD" [VDC]	41		
Charge Voltage Range [VDC]	52,5 - 54		
Shortcircuit Protection	Yes		
Optional Heater Mats	Yes		
Cycle Life [Cycles]	> 5000 @ 0,2C 25°C 80%DoD		
Expected Life Span [Years]	12		
OTHERS			
Communications Port	RS232, RS485 (Optional: Bluetooth, CAN, 3G/4G/5G)		
Protections	Fuse		
Consumption in Sleep-Mode [mAmps]	<= 50		
SoC Front Panel Indicator	Yes		
ON/OFF Switch	Yes		
Internal Heater	Optional		
MECHANICAL			
Dimensions, H x W x D [mm/inches]	132 x 530 x 440 / 5,20 x 20,86 x 17,32	222 x 440 x 440 / 8,74 x 17,32 x 17,32	222 x 440 x 550 / 8,74 x 17,32 x 21,65
Weight [Kg/ Lbs]	49 / 108	64 / 141	78 / 172
Termnal Block	Positive & Negative: 1*M8		
Paint	Black, RAL 9004		
Front Panel Handles	Yes		
ENVIRONMETAL			
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge)		
	0 to +60 / +32 to +140; Optional: -20 (Recharge)		
Storage Temperature [°C/°F]	-5 a +45 / +23 a +113		
Relative Humidity - Non Condensing [%]	5 to 95		
Altitude [masl]	4000		
INTERNATIONAL STANDARDS			
Safety	Cell: UL2580, UL1973 Module: IEC62619, IEC62040	Cell: UL2580, UL1973	Cell: UL2580, UL1973
CE Mark	Yes		