

LFP 48V-TEL 10/50/75 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.

LFP 48V-TEL 10/50/75 Ah BATTERIES

BATBLUTEL48 SERIES

SPECIFICATIONS

SPECIFICATIONS		BATBLUTEL4810	BATBLUTEL4850	BATBLUTEL4875
ELECTRICAL				
MAIN				
Nominal Voltage [VDC]	48			
Cathode Plate Technology	LFP (3.2Vpc)			
Nominal Capacity [Ah]	12	50	75	
Nominal Capacity [Wh]	576	2400	3600	
Maximum Discharge Current [Amps]	10	50	75	
Maximum Charge Current [Amps]	12	50	75	
Maximum DoD [%]	100			
EXTENDED				
Working Voltage Range [VDC]	40.5 - 54	41 - 54		
Maximum Voltage “OVP” [VDC]	57	56		
Minimum Voltage “LVD” [VDC]	40	41		
Charge Voltage Range [VDC]	52.5 - 54			
Charge Current Maximum [Amps]	10	50	75	
Shortcircuit Protection	Yes			
Optional Heater Mats	Yes			
Cycle Life [Cycles]	>=2600 @ 0,5C 25°C	> 5000 @ 0,2C 25°C 80%DoD		
Expected Life Span [Years]	10	15		
OTHERS				
Communications Port	RS232, RS485	RS232, RS485 (Optionals: Bluetooth, CAN, 3G/4G/5G)		
Protections	Fuse	Circuit Breaker	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]	442 x 240 x 440 / 17.40 x 9.45 x 17.32	132 x 390 x 440 / 5.20 x 15.35 x 17.32	132 x 483 x 425 / 5.20 x 19.01 x 16.73	
Weight [Kg/ Lbs]	7.50 / 16	27 / 60	33 / 72.73	
Termnal Block	Positive & Negative: 2*M6	Positive & Negative: 1*M6		
Paint	Black, RAL 9004			
Front Panel Handles	Yes			
ENVIRONMETAL				
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge)			
	0 to +60 / -10 to +140; Optional: -20 (Recharge)			
Storage Temperature [°C/°F]	0 to +40 / +32 to +104			
Relative Humidity - Non Condensing [%]	95			
Altitude [masl]	4000			
INTERNATIONAL STANDARDS				
Safety	Cell: UL1642	Cell: UL2580, UL1973	Cell: UL2580, UL1973	
CE Mark	Yes			