



LFP 48V-TEL BATTERY BANKS

BATBLUTEL48RK SERIES



DESCRIPTION

BLUNERY's series of LFP (Lithium-Ion-Phosphate) battery banks BATBLUTEL48RK is a new concept in solutions for the backup of loads found mainly in Telecommunications equipment. With a noticeably longer useful life, super compact size, and prepared to work in the most extreme environments, these battery banks are the ideal solution for the replacement of the VRLA lead-acid battery banks used in Telephone Centers and Radio-Bases.

The high performance of the LFP batteries and the rigorous design of the BMS integrated in each one of them, make these battery banks fully compatible with any rectifier model currently on the market.

Up to 5 modules can be integrated into the battery banks depending on the desired functionality. It is also possible to connect racks in parallel to increase the installed capacity, thus achieving much longer backup times.

Old and heavy lead-acid VRLA batteries can be quickly and easily replaced during maintenance. This exchange of technologies is completely transparent and does not require any additional steps.

MAIN FEATURES

- Banks with up to 5 modules can be integrated and achieve capacities of 500Ah or 1000Ah.
- As an option, the racks have an LCD display for integral diagnosis and control of the bank.
- The BMS determined as Master, can automatically evaluate the charge and discharge states, and balance currents and voltages of each module.
- The technology used allows more than 5000 discharge and charge cycles.
- The size and weight of the solution is significantly less than its lead-acid VRLA alternative.
- The "DoD" depth of discharge is 100%, so it is not necessary to oversize them to meet the required backup times.
- It has RS485, SNMP and CAN communication portals for status monitoring, updating, etc.

LFP 48V-TEL BATTERY BANKS

BATBLUTEL48RK SERIES



SPECIFICATIONS

	BATBLUTEL48RK500	BATBLUTEL48RK1000
ELECTRICAL		
MAIN		
Nominal Voltage [VDC]	48	
Battery Modules	Up to 5 x BATBLUTEL48100	Up to 5 x BATBLUTEL48200
Cathode Plate Technology	LFP (3.2Vpc)	
Nominal Capacity [Ah]	500	1000
Nominal Capacity [KWh]	24	48
Maximum Discharge Current [Amps]	250	500
Maximum Charge Current [Amps]	250	500
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	RS485, CAN, SNMP	
Protections (Thermomagnetic CB)	1P-250A	1P-500A
Copper bar connection, double hole [mm / inch]	12.7 / 1/2 (for lug PANDUIT, "LLC" series)	
Consumption in Sleep-Mode [mAmps]	<= 50/module	
Top and Bottom Access	Yes	
7" Front Door Touch LCD Display	Optional	
MECHANICAL		
Dimensions, H x W x D [mm/inches]	1550 x 596 x 618 / 61 x 23,5 x 24,3	1900 x 596 x 648 / 74,8 x 23,5 x 25,5
Battery Mank Weight - Empty [Kg/ Lbs]	TBD	TBD
Battery Modules Weight - Individual [kg/Lbs]	49 / 108	78 / 172
Paint	Black, RAL 9004	
Transport Hook	4 on top	
ENVIRONMENTAL		
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge) 0 to +60 / +32 to +140; Optional: -20 / -4 (Recharge)	
Storage Temperature [°C/°F]	-5 to +45 / +23 to +113	
Relative Humidity - Non Condensing [%]	5 to 95	
Altitude [masl]	4000	
INTERNATIONAL STANDARDS		
Safety	Cell: UL2580, UL1973 Module: IEC62619, IEC62040	
CE Mark	Yes	

Latpower reserves the right to change product specifications and design without notice.

1031-N-0721