

LFP-HV BATTERIES

BATBLUHV SERIES



Description

The series of LFP (Lithium-Ion-Phosphate) BATBLUHV batteries of BLUNERY are a new environmentally friendly backup power modules, specially designed for UPS found in the Data Centers market. They have a noticeable superior life span, +10 times shorter recharge times, 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 most of the Data Centers.

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

Multiple clusters of 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.

SPECIFICATIONS

SPECIFICATIONS	BATBLUHV7640	BATBLUHV6440	BATBLUHV6440A
ELECTRICAL			
MAIN			
Nominal Voltage [VDC]	76.8	64	
Cathode Plate Technology	LFP/C (3.2Vpc)		
Nominal Capacity [Ah]	40		
Nominal Capacity [KWh]	3.07	2.56	
Nominal Discharge Power [KW]	12.29	10.24	
Maximum Discharge Current [Amps]	160		
Maximum Charge Current [Amps]	160		
Maximum DoD [%]	100		
EXTENDED			
Working Voltage Range [VDC]	62.4 - 86.4	52 - 72	
Maximum Voltage “OVP” [VDC] *	86.4	72	
Minimum Voltage “LVD” [VDC] *	62.4	52	
Cycle Life [Cycles]	>= 5000 (25°C/77°F, 80%DoD, 0,5C)		
Expected Life Span [Years]	15		
OTHERS			
Communications Port	Rack o Grupo: CAN		
Autodischarge [%/month]	<=4		
Terminal Block	ANDERSON		
MECHANICAL			
Dimensions: H x W x D [mm/inches]	176x440x440 / 6.93x17.33x17.33		176x300x750 / 6.93x13x29.60
Weight [Kg/Lbs]	40 / 88.20	36 / 79.40	
Paint	Black, RAL 9004		
Front Panel Handles	Yes		
ENVIRONMENTAL			
Working Temperature [°C/°F]	-20 to +60 / -4 to +140 (Discharge)		
	0 a +60 / -10 a +140 (Charge)		
Storage Temperature [°C/°F]	0 a +40 / +32 a +104		
Relative Humidity - Non Condensing [%]	95		
Altitude [masl]	4000		
INTERNATIONAL STANDARDS			
Safety	Cell: UL2580, UL1973		
CE Mark	Yes		