



LFP 36V-HFC BATTERY

BATBLUHFC36 SERIES



BATBLUHFC36150



BATBLUHFC36250
BATBLUHFC36300

DESCRIPTION

The series of LFP (Lithium-Ion-Phosphate) BATBLUHFC batteries of BLUNERY is a new environmentally friendly backup power module, specially designed for the CATV and Internet markets. It has a noticeable superior life span, extra reduced size, very light weight and ready for strong environmental working conditions. This battery is the ideal solution for all the back-up needs of the UPSs deployed in the HFC networks.

Its high performance LFP cells and the proven built-in BMS' design, make this battery fully compatible with all the power supplies 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.
- Remote monitoring access via DOCSSIS 3.0 Transponder.
- 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.
- Cycle life in the rang of 5000 charges/discharges.
- Very small size with light weight, specially designed for retrofit in any standard outdoor cabinet.
- Back-up times are, for the average CATV UPS's load, in the range of 150 to 300 minutes (depending on the model).

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SPECIFICATIONS

	BATBLUHFC36150	BATBLUHFC36250	BATBLUHFC36300
ELECTRICAL			
MAIN			
Nominal Voltage [VDC]	38.40		
Cathode Plate Technology	LFP (3.20Vpc)		
Back-Up Time @ UPS Load: 7Amps [min]	150	250	300
Back-Up Time @ UPS Load: 15Amps [min]	75	125	150
Maximum Discharge Current [Amps]	55	80	100
Maximum Charge Current [Amps]	50	80	100
Maximum DoD [%]	100		
Nominal Capacity [Ah]	50	80	100
Nominal Capacity [Wh]	1920	3072	3840
EXTENDED			
Working Voltage Range [VDC]	30.00 - 44.40		
Maximum Voltage "OVP" [VDC]	43.80 - 44.40 (factory adjusted to 44.40)		
Minimum Voltage "LVD" [VDC]	30.00 - 32.40 (factory adjusted to 30.00)		
Charge Voltage Range [VDC]	43.20 (factory recommended 41.40)		
Shortcircuit Protection	Yes		
Self Discharge - Storage [%/Month]	<= 3 (25°C/77°F, 50%SoC)		
Cycle Life [Cycles]	>= 5000 (25°C/77°F, 80%DoD, 0.2C)		
Expected Life Span [Years]	> 15 (25°C/77°F)		
OTHERS			
Communications Port	RS485 / ETH-SNMP / (optional) BLUE-TOOTH		
ON/OFF Circuit Breaker or Push - Botton	Yes		
Consumption in Sleep-Mode [mAmps]	40		
Internal Heater	Yes		
SoC Front Panel Indicator	4 x Green LDEs		
Anti-theft Feature	VOLTAGE-TIME / COMMUNICATIONS LOST / (optctonal) GIROSCOPE INTERNAL MODULE		
Remote Access (via DOCSIS Transponder)	Yes (MIBs for browser avaiable)		
MECHANICAL			
Dimensions, H x W x D [mm/inches] (include handles and/or terminal blocks)	132 x 500 x 280 / 5.19 x 19.68 x 11	220 x 520 x 340 / 9.80 x 20.50 x 13.40	
Weight [Kg]	22 / 48.5	37 / 81.60	38.5 / 85
Paint	Green, RAL 6828		
Front Panel Handles	2		
ENVIRONMENTAL			
Working Temperature [°C/°F]	-20 to 60 / -4 to +140 (Discharge)		
	-10 to +60 / +14 to +140 (Charge)		
Storage Temperature [°C/°F]	0 to +40 / +32 to +104		
Relative Humidity - Non Condensing [%]	<= 95		
Altitude [masl]	<= 3000		

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

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