

B-12V-7A

Replacement Batteries

Owners Guide

(These instructions are intended for use by a technician familiar with electronic products)

- 12VDC Output Voltage
- 7Ah internal battery
- Battery for LPB-12 & LPB-15 power supplies
- Maintenance-Free
- Rechargeable
- 3 year warranty



DESCRIPTION

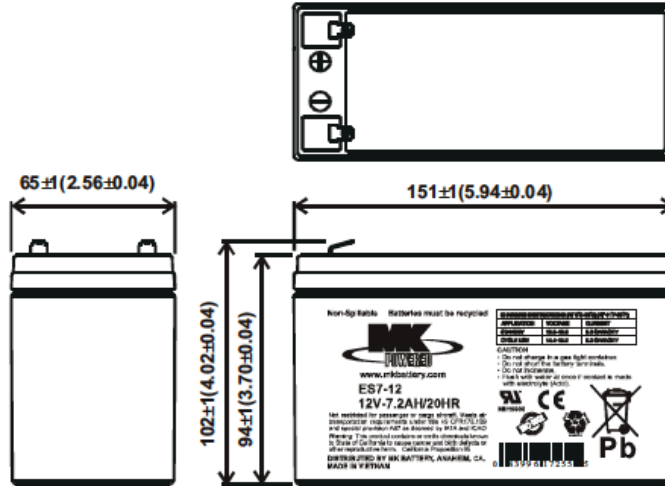
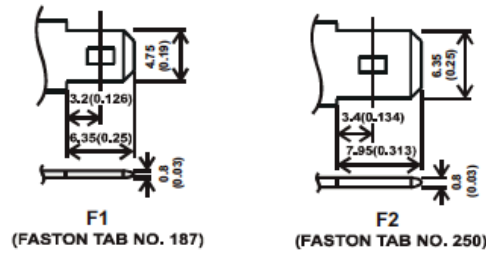
The B-12V-7A is a maintenance-free, rechargeable, and sealed lead-acid battery. The B-12V-7A is the battery for use as replacement in LPB-12 and LPB-15 power supplies. It also can be used with EH-30 or LPBC.

SPECIFICATIONS

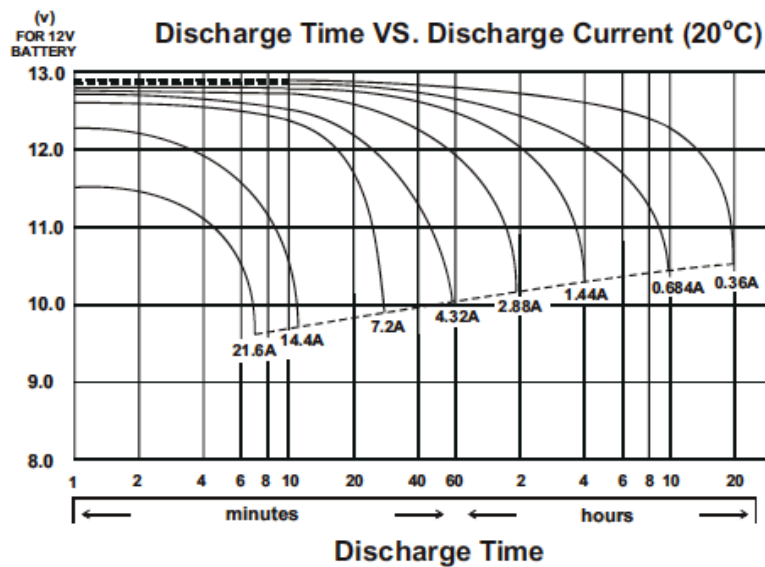
Output Voltage	12 VDC, nominal
Internal Resistance (at 1KHz)	22mΩ
Charging Voltage, cycle use	14.4V to 15.0V
Maximum Charging Current, cycle use	2.16 A
Float Charging Voltage, standard use	13.5V to 13.8V
Capacity@ 20 Hours Rate (0.36A to 10.5V)	7.2 Ah, nominal
Capacity@10 Hours Rate (0.72A to 10.5V)	6.84 Ah, nominal
Capacity@ 5Hours Rate (1.22A to 10.2V)	6.12 Ah, nominal
Capacity@ 1C Rate (7.2A to 9.6V)	3.24 Ah, nominal
Capacity@ 3C Rate (21.6A to 9.6V)	2.52 Ah, nominal
Maximum Discharge Current	288A @ 5 seconds; 144A @ 30 seconds
Life expectancy, cycle use	200 cycles @ 100% depth of discharge
.....	225 cycles @ 80% depth of discharge
.....	500 cycles @ 50% depth of discharge
Life expectancy, standby use	3-5 years
Charge Retention (shelf life) at 20 C (68 F)	92% @ 1 month; 90% @ 3 months; 80% @ 6 months
Operating Temperature (Charge)	32 – 104 F (0 – +40 C)
Operating Temperature (Discharge)	5 – 122 F (-15 – +50C)
Storage Temperature	5 – 104 F (-15 – +40 C)
Size	4.02" H x 2.56" W x 5.94" L
Weight54 lbs

Product Dimensions

mm(inch)



Discharge Time V.S Discharge Current Chart



CONDUCTOR PRETREATMENT

All kinds of copper conductors can be clamped without treatment. DO NOT solder tin stranded conductors. The solder yields and fractures under high pressure. The result is increased contact resistance and excessive temperature rise. Additionally, corrosion has been observed due to the fluxes. Notch fractures at the transition from the rigid tinned part to the flexible conductors are also possible. Ferrules can be used as a protection when wiring stranded conductors. Copper ferrules prevent the current transfer from being influenced by dissimilar metals and remove the risk of corrosion. Always use the correct tool to crimp the ferrule.

RECOMMENDED COPPER WIRE SIZE FOR CURRENT CAPACITY

(Insulated Wire, Single Conductor in free air)

<u>Current Level in Amperes</u>	<u>Wire Size</u>
<7 AMPERES	20 AWG Up to 5 feet 18 AWG Up to 10 feet
14 AMPERES	18 AWG Up to 5 feet 16 AWG Up to 10 feet
20 AMPERES	16 AWG Up to 5 feet 14 AWG Up to 10 feet
30 AMPERES	14 AWG Up to 5 feet 12 AWG Up to 10 feet
40 AMPERES	12 AWG Up to 5 feet 10 AWG Up to 10 feet
50 AMPERES	10 AWG Up to 5 feet 8 AWG Up to 10 feet
70 AMPERES	8 AWG Up to 5 feet 6 AWG Up to 10 feet
100 AMPERES	6 AWG Up to 5 feet 4 AWG Up to 10 feet

LIMITED WARRANTY

DuraComm warrants to the initial end user, each power supply manufactured by DuraComm to be free from defects in material and workmanship, when in normal use and service for a period of three year from the date of purchase, from an authorized DuraComm dealer.

Should a product manufactured by DuraComm fail or malfunction due to manufacturing defect, or faulty component, DuraComm, at its option, will repair or replace the faulty product or parts thereof, which, after examination by DuraComm, prove to be defective or not operational according to specifications in effect at the time of sale to the initial end user. The product that is replaced or repaired under the provisions of this warranty, will be warranted for the remainder of the original warranty period, only, and will not extend into a new three year warranty period.

The limited warranty does not extend to any DuraComm product which has been subject to misuse, accidental damage, neglect, incorrect wiring not associated with manufacture, improper charging voltages, or any product which has had the serial number removed, altered, defaced, or changed in any way.

DuraComm reserves the right to change, alter, or improve the specifications of its products at any time, and by so doing, incurs no obligation to install or retrofit any such changes or improvements in or on products manufactured prior to inclusion of such changes.

DuraComm requires any product needing in or out of warranty service to be returned to DuraComm. All requests for warranty service must be accompanied by proof of purchase, such as bill of sale with purchase date identified. DuraComm is not responsible for any expenses or payments incurred for the removal of the product from its place of use, transportation or shipping expenses to the place of repair, or return expenses of a repaired or replacement product to its place of use.

The implied warranties which the law imposes on the sale of this product are expressly LIMITED, in duration, to the three (3) year time period specified herein. DuraComm will not be liable for damages, consequential or otherwise, resulting from the use and operation of this product, or from the breach of this LIMITED WARRANTY.

Some states do not allow limitations on the duration of the implied warranty or exclusions or limitations of incidental or consequential damages, so said limitations or exclusions may not apply to you. This warranty gives you specific legal rights which vary from state to state.

This warranty is given in lieu of all other warranties, whether expressed, implied, or by law. All other warranties, including WITHOUT LIMITATION, warranties of merchantability and fitness or suitability for a particular purpose, are specifically excluded. DuraComm reserves the right to change or modify its warranty and service programs without prior notice.

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