

INCH-POUND

MIL-B-49030/5A

21 March 2011

SUPERSEDING

MIL-B-49030/5(EL)

22 November 1976

MILITARY SPECIFICATION SHEET

BATTERY, DRY, BA-3051/U

INACTIVE FOR NEW DESIGN AFTER 2 NOVEMBER 1998

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and [MIL-B-49030](#).

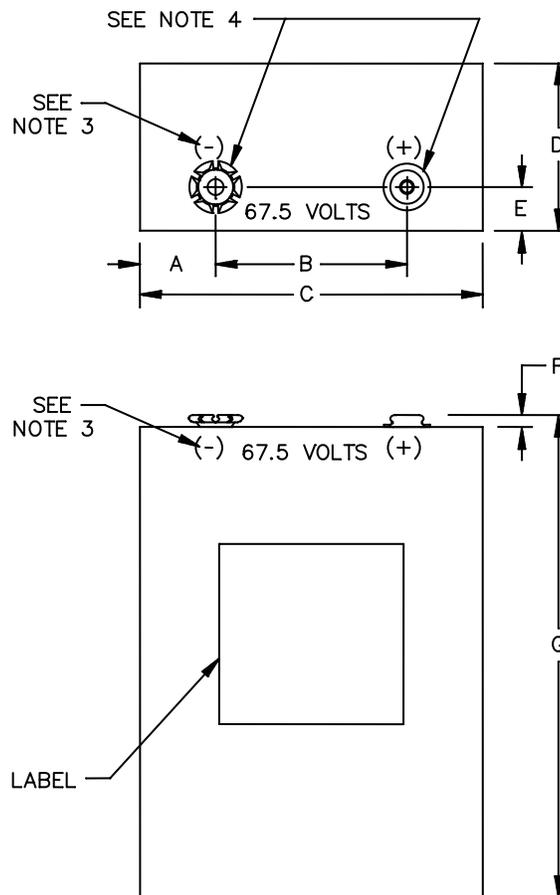


FIGURE 1. Interface and physical dimensions.

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Ltr	Inches		mm	
	Min	Max	Min	Max
A	.563	.625	14.30	15.88
B	1.484	1.516	37.69	38.51
C	2.594	2.782	65.89	70.66
D	1.250	1.374	31.75	34.90
E	.313	.375	7.95	9.53
F	.063	.125	1.60	3.18
G	3.626	3.750	92.10	95.25

NOTES:

1. All dimensions shown on figure are in inches.
2. Unless otherwise specified, tolerance is .062 inch.
3. Voltage and polarity markings may be placed either on the top or front face of the battery.
4. Snap-on terminals are required (see general specifications for details).
5. Metric equivalents specified in table are for general information only.

FIGURE 1. Interface and physical dimensions - Continued.

REQUIREMENTS:

Interface and physical dimensions: See figure 1.

Nominal voltage: 67.5 volts.

Usual number and type of cells: 45 "N" cells.

Usual cell connection: Series.

Terminals: Snap-on.

Weight (maximum): 1.3 pounds.

Capacity tests: When the battery is tested in accordance with the methods of examination and test of this specification, the minimum capacity-test requirements shall be as specified herein.

First article inspection:

Vibration test.

Mechanical-shock test.

Insulation-resistance test.

Visual and mechanical (external and internal).

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Dimensions and weight.

Battery voltage.

Capacity, I, LT, and HT.

Conformance inspection.

Visual and mechanical (external)

Dimensions and weight.

Battery voltage.

Insulation-resistance test.

Vibration test.

Mechanical-shock test.

Capacity: LT, HT, T, and D.

Methods of examination and test:

Capacity tests: See requirements for capacity specified herein.

<u>Test</u>	<u>Storage period</u>	<u>Temperature</u>	<u>Minimum service required (hours)</u>
I (Initial 70 °F)	48 hours minimum	70 °F	30
LT (0 °F)	16 hours minimum,	0 °F	4
HT (160 °F)	7 days plus	160 °F	
	48 hours minimum	70 °F	20
T	13 weeks plus	113 °F	
	48 hours minimum	70 °F	22
D	52 weeks	70 °F	24

Discharge: The battery shall be discharged through 4,500 ohms continuously to an end voltage of 40.5 volts.

Closed circuit voltage: Use TS-183 ()/U per special marking or, with minimum permissible voltage as specified for TS-183 ()/U, use a load resistant value of 1,980 ohms.

Special marking on each unit package:

TO TEST THIS BATTERY WITH TS-183 ()/U	
USE JACK NO	MINIMUM PERMISSIBLE VOLTAGE
24	62.1
Unless expressly authorized, this test information shall apply to Army and Air Force applications only.	

Part or Identifying Number (PIN): BA-3051/U, see 1.2 of [MIL-B-49030](#).

The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Custodians:
Army - CR
DLA - CC

Preparing activity:
DLA - CC

(Project 6135-2010-011)

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