

INCH-POUND

MIL-B-49030/2A
21 March 2011
SUPERSEDING
MIL-B-49030/2(EL)
22 November 1976

MILITARY SPECIFICATION SHEET

BATTERY, DRY, BA-3036/U

INACTIVE FOR NEW DESIGN AFTER 23 JULY 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](#).

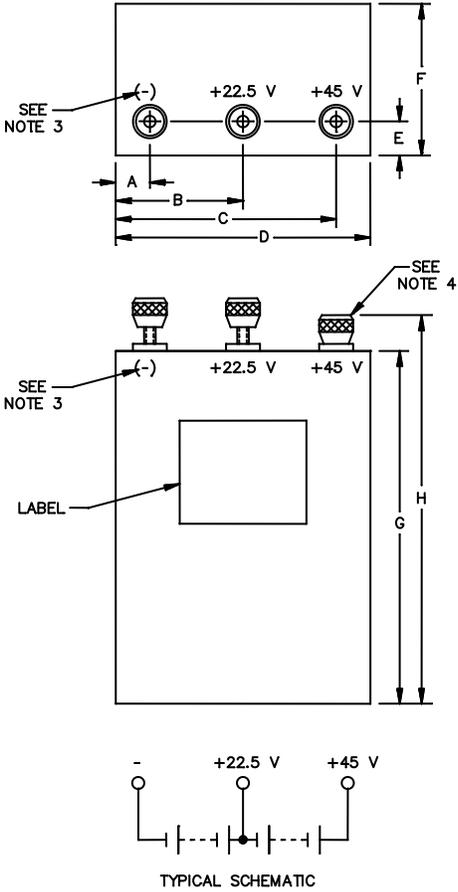


FIGURE 1. Interface and physical dimensions.

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Ltr	Inches		mm	
	Min	Max	Min	Max
A	.500	.624	12.70	15.85
B	2.032	2.156	51.61	54.76
C	3.563	3.687	90.50	93.65
D	4.126	4.250	104.80	107.95
E	.500	.624	12.70	15.85
F	2.438	2.562	61.93	65.07
G	5.750	5.874	146.05	149.20
H	---	6.500	---	165.10

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. Provide insulated knurled nuts with brass inserts.
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: 45 volts.

Tapped at: 22.5 volts.

Usual number and type of cells: 60 "AA" cells.

Usual cell connection: Series-parallel.

Terminals: Stud and nut.

Weight (maximum): 3 pounds, 5 ounces.

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.

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First article inspection:

Vibration test.

Mechanical-shock test.

Insulation resistance test.

Visual and mechanical (external and internal).

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	34
LT (0 °F)	16 hours minimum,	0 °F	7
HT (160 °F)	7 days plus 48 hours minimum	160 °F 70 °F	28
T	13 weeks plus 48 hours minimum	113 °F 70 °F	30
D	52 weeks	70 °F	32

Discharge: The battery shall be discharged through 600 ohms continuously to an end voltage of 27.0 volts.

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Closed circuit voltage: Use TS-183 ()/U test per special marking or, with minimum permissible voltage as specified for TS-183 ()/U, use a load resistant value of 544.0 ohms.

Special marking on each unit package:

TO TEST THIS BATTERY WITH TS-183 ()/U	
USE JACK NO	MINIMUM PERMISSIBLE VOLTAGE
13	42.0

Unless expressly authorized, this test information shall apply to Army and Air Force applications only.

Part or Identifying Number (PIN): BA-3036/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 6135-2010-010)

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