

MILITARY SPECIFICATION SHEET

BATTERY, DRY, BA-48

INACTIVE FOR NEW DESIGN AFTER
10 AUG 1998 AND IS NO LONGER USED, EXCEPT
FOR REPLACEMENT PURPOSES.

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-18](#).

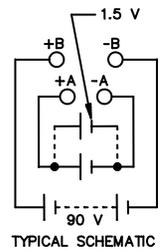
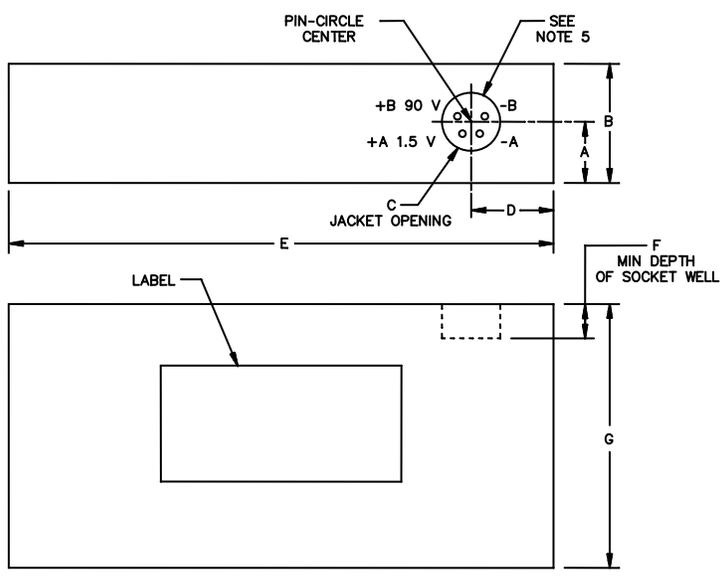


FIGURE 1. Battery dimensions.

MIL-B-18/23E

Ltr	Inches		mm	
	Min	Max	Min	Max
A	1.089	1.144	27.66	26.49
B	2.125	2.219	27.53	27.62
C	1.058	1.068	26.87	26.47
D	1.495	1.510	37.97	38.35
E	9.933	9.943	252.30	252.55
F	.620	.630	15.75	16.00
G	4.808	4.818	122.12	122.38

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances are ± 0.005 (0.13 mm) for three place decimals and ± 0.02 (0.5 mm) for two place decimals.
4. Marking to be in accordance with [MIL-B-18](#).
5. Socket type X111 is required. (see [MIL-B-18](#) for details.)

FIGURE 1. Battery dimensions - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Nominal voltage:	<u>A unit</u> 1.5 volts	<u>B unit</u> 90 volts
Usual number and type of cells:	6 "CD" cells	90 "A" cells
Usual cell connection:	Parallel	Series

Terminals: Four hole socket.

Weight (maximum): 5 pounds, 8 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 not less than the minimum time specified for SLD or SLT.

First article inspection in accordance with [MIL-B-18](#):

- Visual and mechanical (external).
- Battery voltage.
- Vibration test.
- Mechanical-shock test in accordance with [MIL-STD-202, method 213](#), test condition I.
- Insulation resistance test in accordance with [MIL-STD-202, method 302](#), test condition B, tolerance ± 20 volts.
- Capacity, D (without storage).
- Jacket integrity test.

MIL-B-18/23E

Conformance inspection in accordance with MIL-B-18:

Visual and mechanical (external).

Battery voltage.

Insulation-resistance test in accordance with MIL-STD-202, method 302, test condition B, tolerance ± 20 volts.

Vibration test.

Mechanical-shock test in accordance with MIL-STD-202, method 213, test condition I.

Jacket integrity test.

Electrolyte leakage.

Capacity, D and T.

Method of examination and test:

Capacity tests: See requirements for capacity specified herein.

Storage:	Test	Period
	D	12 months
	T	90 days

Discharge: The "A" unit shall be discharged through 5 ohms and the "B" unit through 9,000 ohms for 5 hours per day, 5 days per week. This cycle shall be repeated continuously to a test-end voltage of 1.1 volts for the "A" unit and 65.0 volts for the "B" unit.

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 resistance value as noted below:

A section	1.998 ohms
B section	3,440 ohms

Special marking on each unit package:

TO TEST THIS BATTERY WITH TS-183 ()/U:	
USE JACK NO.	MINIMUM PERMISSIBLE VOLTAGE
Unit A - 1	1.35
Unit B - 26	84.0

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

Part or Identifying Number (PIN): BA-48, see 1.2 of MIL-B-18.

Reference documents. In addition to MIL-B-18, this document references the following:

MIL-STD-202

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.

MIL-B-18/23E

Custodians:

Army - CR
Navy - SH
Air Force - 99
DLA - CC

Preparing activity:

DLA - CC

(Project 6135-2010-050)

Review activities:

Army - CR4
Navy - MC

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil>.