

INCH-POUND

MIL-B-18/251B
W/AMENDMENT 1
18 February 2022
SUPERSEDING
MIL-B-18/251B
22 November 2010

MILITARY SPECIFICATION SHEET

BATTERY, DRY, BA-505/U

INACTIVE FOR NEW DESIGN AFTER
15 OCTOBER 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.

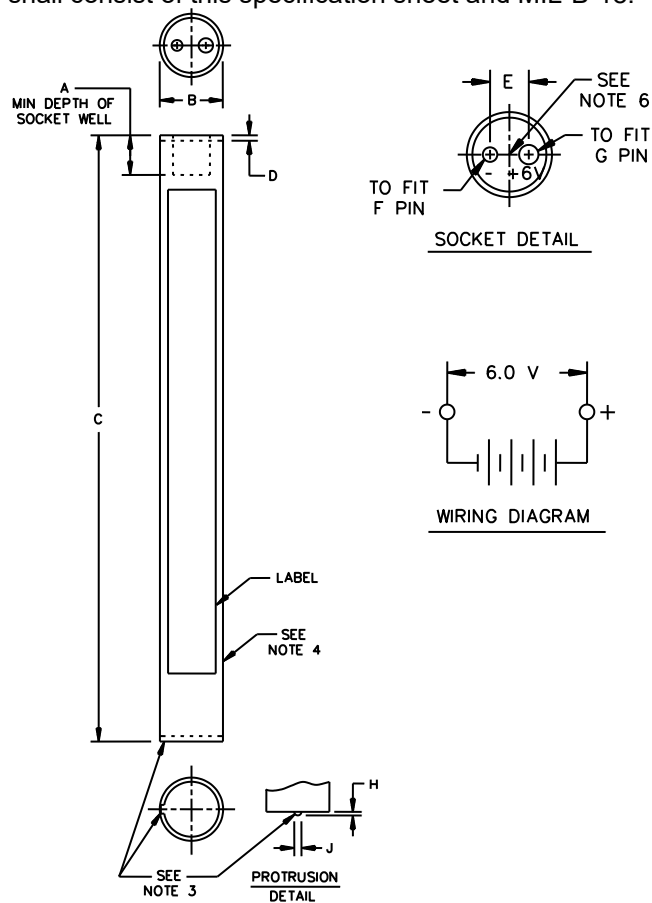


FIGURE 1. Battery dimensions.



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Ltr	Inches	Inches	mm	mm
	Min	Max	Min	Max
A	.344	---	8.74	---
B	.500	.594	12.70	15.08
C	5.219	5.313	132.56	134.87
D	---	.047	---	1.19
E	.245	.255	6.22	6.48
F	.089	.099	2.26	2.29
G	.120	.130	5.08	3.30
H	.015	.047	3.81	1.19
J	.032	.094	0.81	2.39

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Protrusion on bottom rim of tube shall be located to line up with negative hole in socket as shown.
4. The jacket material shall be metallic.
5. Voltage and polarity markings- may be placed on top or side of battery.
6. Protrusion shall extend beyond the height of the metal jacket and be approximately .063 inch (1.60 mm) in diameter. Socket in pin hole openings shall not be obstructed by protrusion.

FIGURE 1. Battery dimensions - Continued.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Nominal voltage: 6.0 volts.

Usual number and type of cells: 4 "N" cells.

Usual cell connection: Series.

Terminals: 2-hole socket.

Weight (Maximum): 1.33 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.

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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-202-213, test condition I.
Insulation resistance test in accordance with MIL-STD-202-302, test condition B,
tolerance ± 20 volts.
Capacity, D (without storage).
Jacket integrity test.

Conformance inspection in accordance with MIL-B-18:

Visual and mechanical (external).
Battery voltage.
Insulation resistance test in accordance with MIL-STD-202-302, test condition B,
tolerance ± 20 volts.
Vibration test.
Mechanical-shock test in accordance with MIL-STD-202-213, test condition I.
Jacket integrity test.
Electrode 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 battery shall be discharged through a resistance of 100 ohms for 2 minutes, then remain on open circuit for 28 minutes. This cycle shall be repeated 5 days per week continuously to a test-end voltage of 10.0 volts.

Special marking on each unit package:

TO TEST THIS BATTERY WITH TS-183 ()/U:	
USE JACK NO.	MINIMUM PERMISSIBLE VOLTAGE
12	5.52

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

Part or Identifying Number (PIN): BA-505/U, see 1.2 of MIL-B-18.

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Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. 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.

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

MIL-STD-202-213 MIL-STD-202-302

Custodians:

Army - CR
Navy - SH
DLA - CC

Preparing activity:

DLA - CC

(Project 6135-2021-018)

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.dla.mil>.