

INCH-POUND

MIL-DTL-18/38F

18 September 2023

SUPERSEDING

MIL-B-18/38E

W/AMENDMENT 1

25 June 2021

MILITARY SPECIFICATION SHEET

BATTERY, DRY, BA-205/U

INACTIVE FOR NEW DESIGN AFTER
10 AUGUST 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-DTL-18](#).

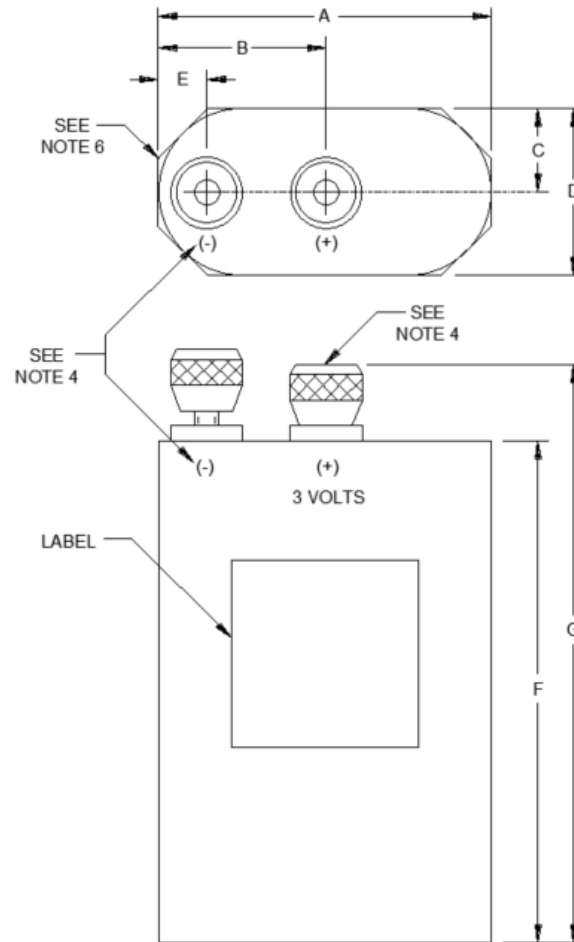
AMSC N/A

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FSC 6135



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Ltr	Inches	Inches	mm	mm
	Min	Max	Min	Max
A	2.531	2.688	64.29	68.28
B	1.251	1.376	31.78	34.95
C	.594	.719	15.09	18.26
D	1.251	1.376	31.78	34.95
E	.313	.438	7.95	11.13
F	3.876	4.001	98.45	101.63
G	---	4.656	---	118.26

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Unless otherwise specified, tolerances is ± 0.0625 (1.59 mm).
4. Voltage and polarity markings may be placed either on the top or front face of the battery.
5. Insulated knurled nuts with brass inserts shall be used and lock washers shall be .168 (4.27 mm) ID, 0.381 (9.68 mm) OD.
6. Diagonal or round corners are optional.
7. Marking to be in accordance with [MIL-DTL-18](#).

FIGURE 1. Battery dimensions.

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Nominal voltage: 3 volts.

Usual number and type of cells: 2 "F" cells.

Usual cell connection: Series.

Terminals: Stud and nut.

Weight (maximum): 14 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-DTL-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-DTL-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:	<u>Test</u>	<u>Period</u>
	D	12 months
	T	90 days

Discharge: The battery shall be discharged through 20 ohms continuously to a test-end voltage of 2.0 volts.

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 of 11.99 ohms.

Special marking on each unit package:

TO TEST THIS BATTERY WITH TS-183 ()/U:

USE JACK NO.	MINIMUM PERMISSIBLE VOLTAGE
6	2.80

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

Part or Identifying Number (PIN): BA-205/U, see 1.2 of [MIL-DTL-18](#).

Change notations. The margins of this standard are marked with vertical lines to indicate modifications generated by this change. 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-DTL-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 6135-2023-005)

Review activities:

Army - AR, MI

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.dla.mil>.