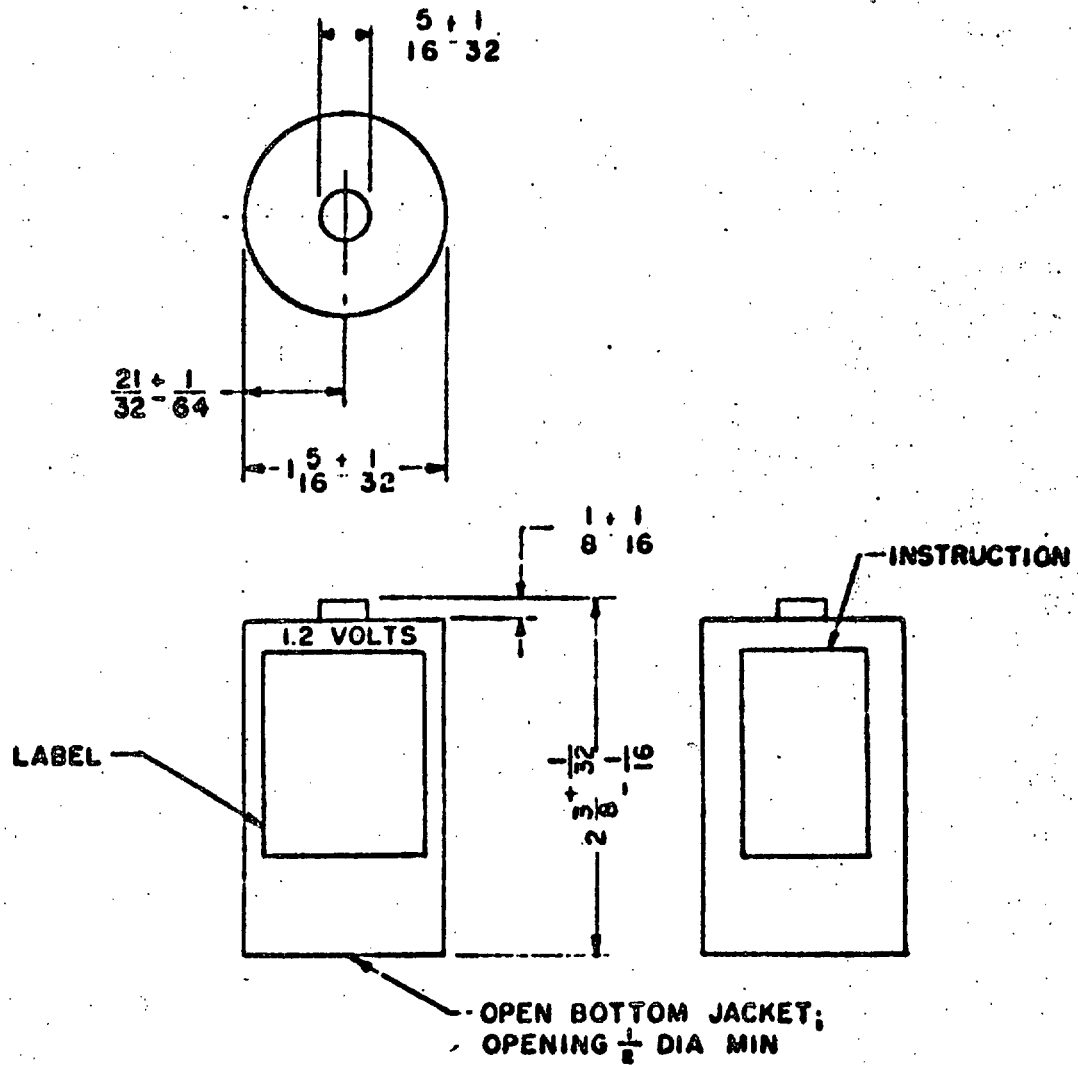


FED. SUP CLASS  
6140

NOTE.—When Government drawings, specifications, or other data are used for any purpose other than in connection with a definite, original Government procurement operation, the United States Government thereby incurs no responsibility, nor any obligation, and the fact that the Government may have furnished the data, or in any way supplied the said drawings, specifications, or other data, shall not be regarded as an endorsement or approval of any product or process, or as a warranty or guarantee of any kind, or as a recommendation of any product or process, or as a permission to manufacture or use any product or process, or as a permission to reproduce any drawing, specification, or other data, or as a permission to use any product or process, or as a permission to reproduce any drawing, specification, or other data, or as a permission to use any product or process, or as a permission to reproduce any drawing, specification, or other data.



## NOTES:

1. ALL DIMENSIONS IN INCHES
2. For design feature purposes, this Standard takes precedence over procurement documents referenced herein.
3. Referenced documents shall be of the issue in effect on date of invitations for bids.

This standard has been approved by the Signal Corps  
Department of the Army, and is mandatory for use by  
all activities. (All other) Army activities are required  
to use this standard where applicable.

PA SigC	TITLE	MILITARY STANDARD
Other Cost	BATTERY, STORAGE BB-412 (1) / U	MIL 75031 (SigC)
MIL-B-55130(SigC)		

FED. SUP. CLASS  
6140ELECTRICAL & PHYSICAL REQUIREMENTS

<b>Class</b>	<b>Sealed Cell</b>
<b>Voltages</b>	
Nominal	1.20 volts
Final (Unless otherwise specified)	1.00 volt
Rated Capacity ( $C_5$ )	3.50 A.H. (amp.hrs.)
Charge Rate ( $0.2C_5$ )	0.70 amps
<b>Discharge Rates</b>	
$0.2C_5$	0.70 amps
$3C_5$	10.5 amps
<b>Terminals</b>	<b>Button Type</b>
<b>Max. Weight</b>	6.5oz
<b>Container</b>	Nickel-Cadmium Cold Rolled Steel, or equal
<b>Number &amp; Type of Cells</b>	1 "D" Cell

PRODUCTION SAMPLING TESTS

<u>Tests</u>	<u>Test Para.</u>	<u>Min. Test Value</u>
Initial Full Capacity Discharge	4.9 .1.1	3.50 A.H.
Full Capacity Discharge	4.9 .1	3.50 A.H.
Low Temperature Discharge	4.9 .2	
Test I	4.9 .2.1	3.15 A.H.
Test II	4.9 .2.2	1.75 A.H.
High Rate Discharge	4.9 .4	
5 second voltage		1.15 volts
Minutes to 1.0 volt		15 Minutes
* Intermittent Discharge	4.9 .3	1100 Minutes
Overcharge Test	4.14	3.50 A.H.
Cycle Life Test - Test I	4.12.1	400 cycles
* Discharge through 6.67 ohms for 4 minutes every 1/2 hour, 10 hours per day, 5 days per week to a cut-off voltage of 0.93 volt.		
<b>Retention of Charge</b>		
Test I	4.15.1	2.60 A. H.
Test II	4.15.2	1.20 A. H.

APPROVED 12 May 1961 REVISED

P.A. Sig C. Other Cust	TITLE Battery, Storage, BB-412( )/U	MILITARY STANDARD
		MS 75G31 (SigC)
Formal Specification MIL-B-55130(SigC)	SUPERSEDES	SHEET 2 OF