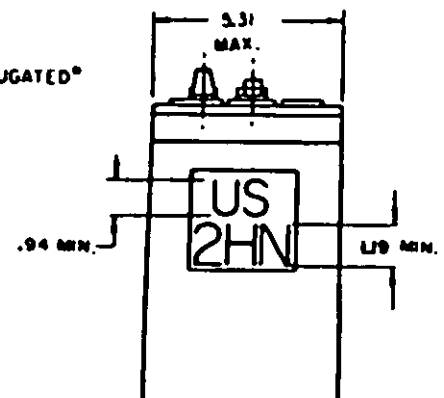
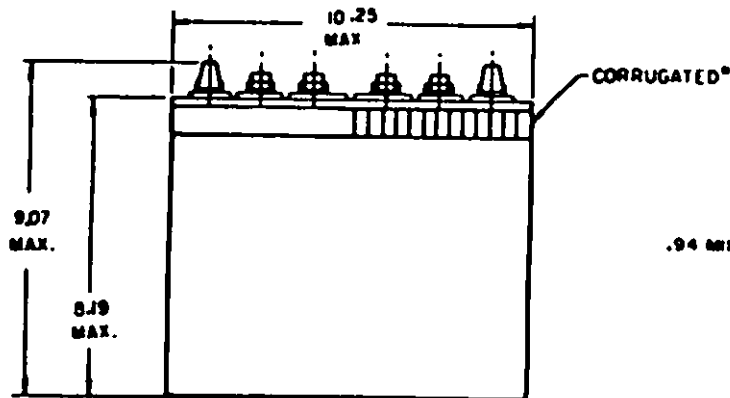
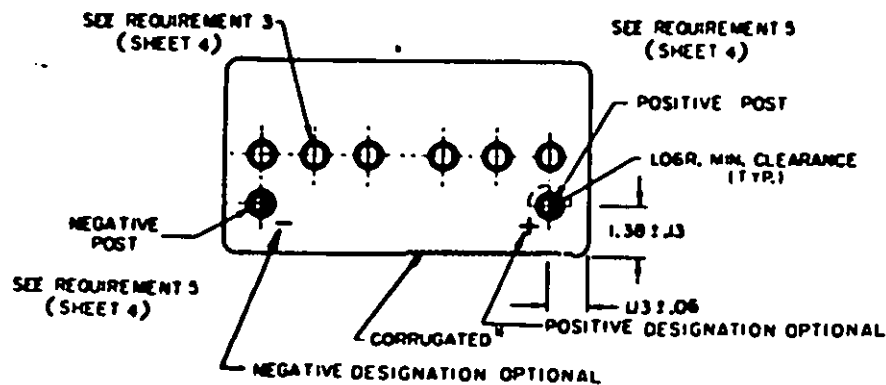


FED WIP CLASS
6140USER ACTIVITIES: Army - C1
Navy - MC, O5REVIEWER ACTIVITIES: Army - LS, ME, M1
Navy - SM
AF - BG
DLA - CS

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

INCHES	MIL
.005	.127
.04	1.01
.06	1.52
.08	2.03
.094	2.39
.125	3.18
.13	3.30
.25	6.35
.50	12.7
.62	15.74
.625	15.88
.672	17.07
.688	17.48
.75	19.05
.94	23.88
1.0	25.4
1.06	26.92
1.13	28.7
1.19	30.23
1.38	35.05
1.75	44.45
1.88	47.75
2.50	63.5
2.75	69.85
3.25	82.55
3.75	95.25
5.25	133.35
5.5	139.7
7.5	190.5
8.0	203.2
8.06	204.72
8.94	227.08
9.88	250.95
10.19	258.82
10.50	266.7
11.25	285.75



TYPE 2HN

(R) FOR CHANGES SEE PAGES 2 AND 4

P. A. Army - AT Other Code Navy - YD Air Force - 99	INTERNATIONAL INTEREST	TITLE BATTERY, STORAGE, LEAD-ACID, WATERPROOF	MILITARY STANDARD MS 35000
PROCUREMENT SPECIFICATION MIL-B-11188	SUPERSEDES	SHEET 1	OF 4

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

6140-0674

APPROVED 27 FEBRUARY 1953 REVISED (R) 1 DECEMBER 1987

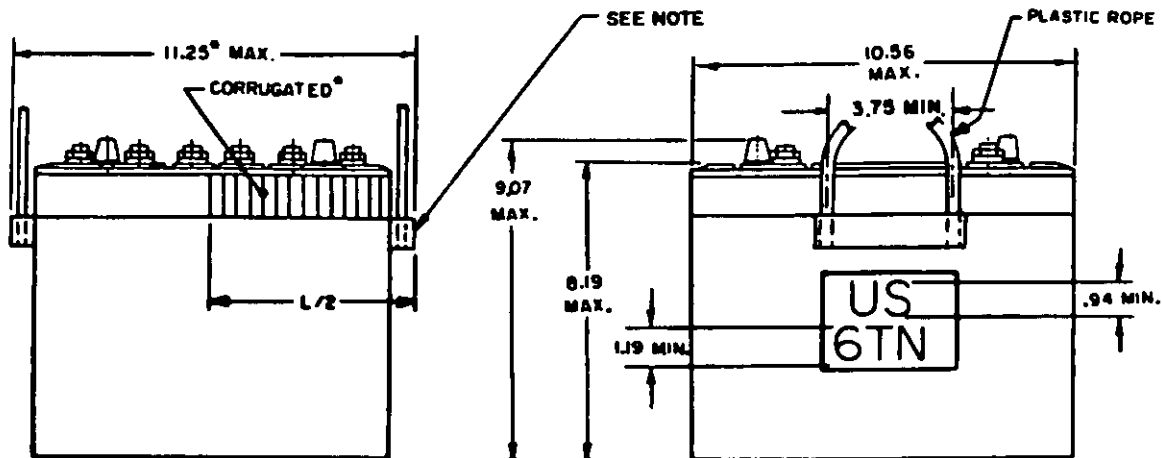
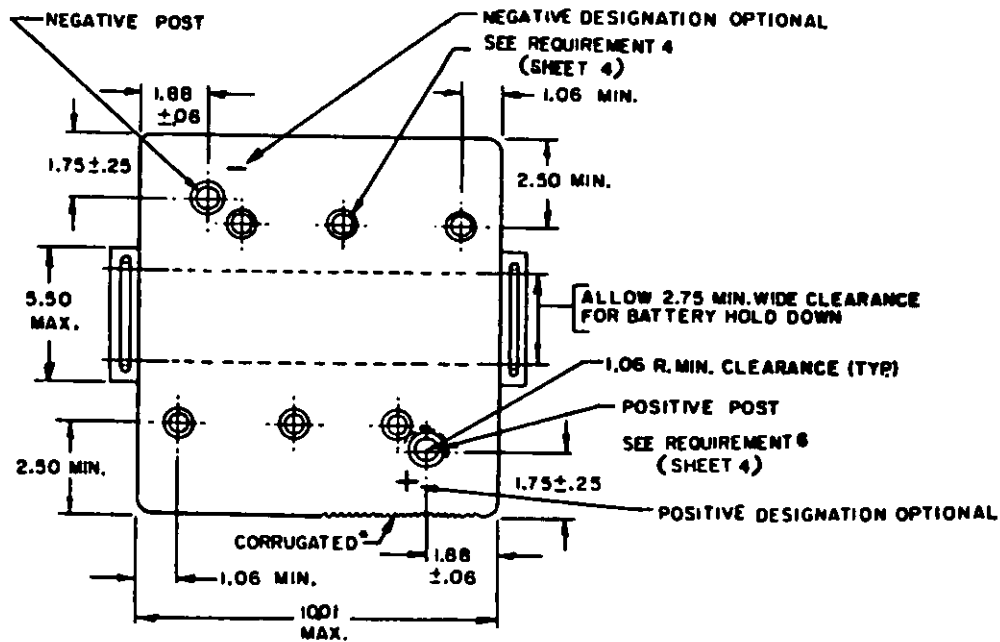
FED. SUP CLASS
6140

USER ACTIVITIES

REVIEWED ACTIVITIES

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



TYPE 6TN* (R)

NOTE: HANDLE BRACKETS SHALL BE ANCHORED TO CONTAINER. IN LIEU OF PLASTIC ROPE HANDLES AS SHOWN, METAL HANDLES MEETING ALL REQUIREMENTS OF THE SPECIFICATION MAY BE USED.

(R)

* INACTIVE FOR NEW DESIGN AFTER 1 DEC 1987
SEE NOTE ON SHEET 4.

P. A. Other Cost	INTERNATIONAL INTEREST	TITLE BATTERY, STORAGE, LEAD-ACID, WATERPROOF	MILITARY STANDARD MS 35000
PROCUREMENT SPECIFICATION MIL-B-11168	SUPERSEDES	SHEET 2 OF 4	

DD FORM 672-1 (COORDINATED)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

APPROVED 27 FEBRUARY 1953 REVISED (R) FOR CHANGES SEE PAGES 2 AND 4

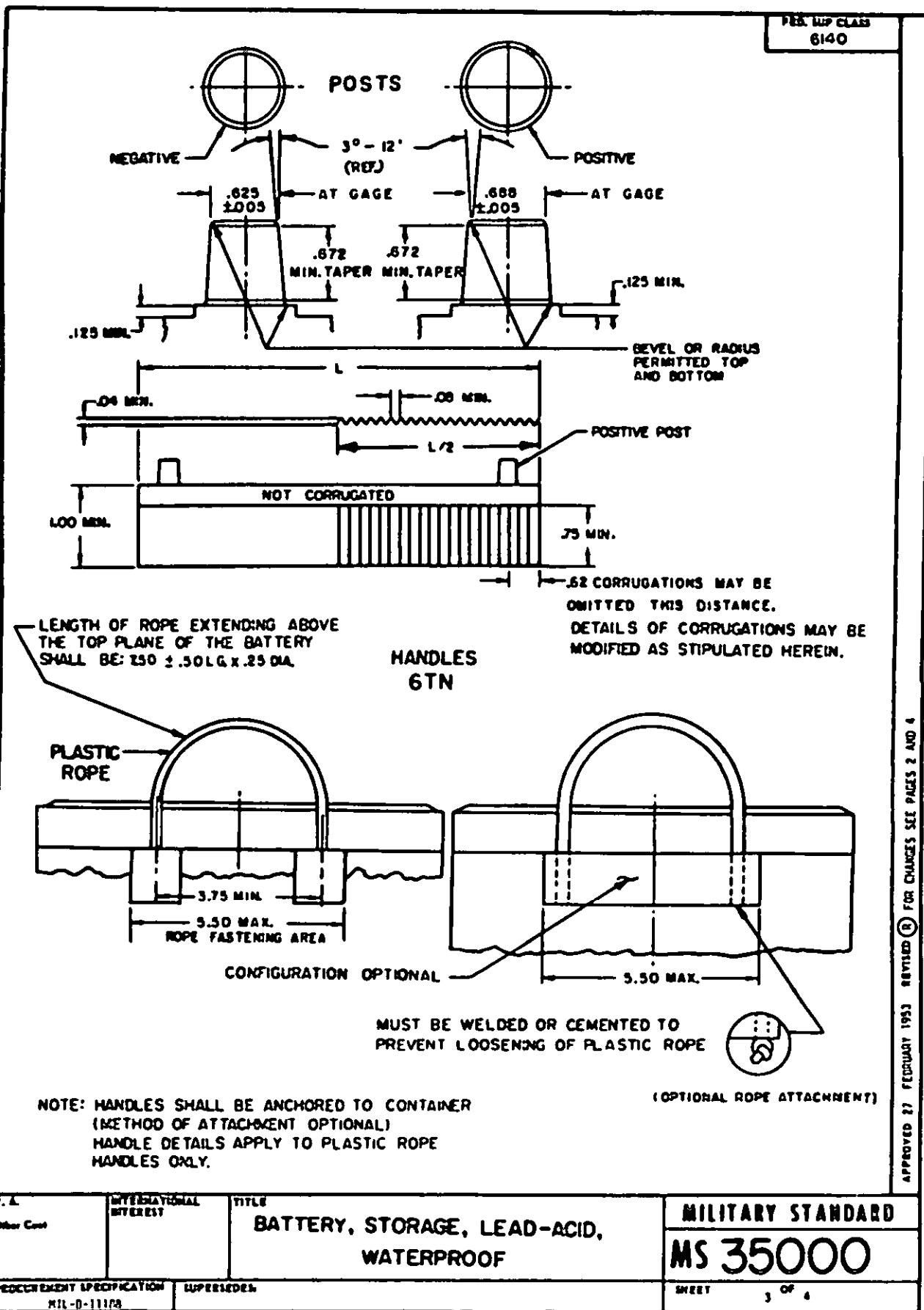
FED. SUP. CLASS
6140

USER ACTIVITIES

REVIEWER ACTIVITIES

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.



P. A. Other Code	INTERNATIONAL INTEREST	TITLE BATTERY, STORAGE, LEAD-ACID, WATERPROOF	MILITARY STANDARD MS 35000
PRECEDENCE SPECIFICATION MIL-D-11119	SUPERSEDES	SHEET 3 OF 4	

DD FORM 672-1 COORDINATED

REVISIONS TO THIS FORM ARE OBSOLETE

APPROVED 27 FEBRUARY 1953 REVISED (R) FOR CHARGES SEE PAGES 2 AND 4

USER ACTIVITIES:

REVIEWER ACTIVITIES:

This military standard is approved for use by the US Army Tank-Automotive Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

AMSC N/A

 FED. SUP CLASS
6140

PHYSICAL AND ELECTRICAL REQUIREMENTS		
	2 HN	6 TN
MS PART NO.		
CHARGED AND DRY	MS 35000-1	MS 35000-3*
CHARGED AND WET	MS 35000-2	MS 35000-4**
CLASS	FE	FE
NOMINAL WEIGHT (UNFILLED)	28 POUNDS	52 POUNDS
NOMINAL WEIGHT (FILLED)	37 POUNDS	71 POUNDS
NOMINAL VOLTAGE	12 VOLTS	12 VOLTS
FINAL VOLTAGE AT 20 HOUR RATE	10.5 VOLTS	10.5 VOLTS
RATED CAPACITY AT 20 HOUR RATE	45 AMP HOURS	100 AMP HOUR
DISCHARGE AT 20 HOUR RATE	2.25 AMPS	5 AMPS
CHARGING RATE	2.5 AMPS	5 AMPS

QUALITY CONFORMANCE INSPECTION REQUIREMENTS		
TEST	MINIMUM VALUES	
	2 HN	6 TN
FILLED DISCHARGE AT 80° F	AT 150 AMPS	AT 300 AMPS
TIME TO DROP TO 1 VOLT PER CELL	5 MINUTES	5 MINUTES
FULL CHARGE CAPACITY AT 80° F	45 AMP-HOURS	100 AMP-HOURS
HIGH DISCHARGE RATE AT MINUS 40° F	AT 150 AMPS	AT 300 AMPS
TIME TO DROP TO 1 VOLT PER CELL	1.25 MINUTES	1.25 MINUTES
LIFE CYCLE CAPACITY TEST I	188 CYCLES	207 CYCLES
OVERCHARGE CYCLE TEST	9 CYCLES	12 CYCLES
RETENTION OF CHARGE	36 AMP-HOURS	60 AMP-HOURS
RESERVE CAPACITY	75 MINUTES	180 MINUTES

6TN INACTIVE FOR NEW DESIGN AFTER 1 DEC 1987

* FOR MS 35000-3, USE MS 52149-1

** FOR MS 35000-4, USE MS 52149-2

REQUIREMENTS:

1. ELECTROLYTE SHALL NOT BE FURNISHED FOR CHARGED AND DRY BATTERIES.
2. CHARGED AND MET BATTERIES SHALL BE FILLED WITH ELECTROLYTE AND READY TO USE.
3. SIX (6) SUBMERSIBLE VENT PLUGS SHALL BE LOCATED ONLY IN RESPECT TO REQUIRED MINIMUM DISTANCE FROM TERMINAL POSTS AND SIDES OF BATTERY.
4. MARKING SHALL CONSIST OF THE MS NUMBER AND MANUFACTURER'S IDENTIFICATION IN ACCORDANCE WITH MIL-STD-130.
5. COVER AND BASE TO BE PARALLEL WITHIN .047 INCHES TOTAL.

NOTES:

1. DIMENSIONS ARE IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES ARE $\pm .06$.
2. THE MS PART NUMBER CONSISTS OF THE MS MILITARY STANDARD NUMBER FOLLOWED BY A DASH NUMBER.
3. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
4. THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN SHOWN HEREIN BY DIMENSIONS, NOTATIONS, OR REFERENCED DOCUMENTS.
5. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCED HEREIN.

"CERTAIN PROVISIONS (IDENTIFIED BY *) OF THIS STANDARD ARE THE SUBJECT OF INTERNATIONAL STANDARDIZATION AGREEMENTS (STAG 347 AND STANAG 4015. WHEN REVISION OR CANCELLATION OF THIS STANDARD IS PROPOSED WHICH WILL EFFECT OR VIOLATE THE INTERNATIONAL AGREEMENT CONCERNED, THE PREPARING ACTIVITY WILL TAKE APPROPRIATE RECONCILIATION ACTION THROUGH INTERNATIONAL STANDARDIZATION CHANNELS, INCLUDING DEPARTMENTAL STANDARDIZATION OFFICES, IF REQUIRED."

APPROVED 27 FEBRUARY 1953 REVISED (R) FOR CHANGES SEE PAGES 2 AND 4

P. A.	INTERNATIONAL INTEREST	TITLE	MILITARY STANDARD
Other Cost		BATTERY, STORAGE, LEAD - ACID, WATERPROOF	MS35000
PROCUREMENT SPECIFICATION	SUPERSEDES		SHEET 4 OF 4
MTL-8-11188			