

SPECIFICATION
FOR
BATTERY, DRY (MERCURY), 10.8 V, NO 1 NATO STOCK NUMBER 6135-99-910-1173



This Supplement supersedes EQD Specification No L/5237(P),
dated July 1963

1. This Supplement is to be used in conjunction with the General Specification for primary batteries (Leclanché mercury, and manganese alkaline types) contained in DEF STAN 61 - 3 (PART 1).

2. NOMINAL VOLTAGE

a. Cell.

1.35

b. Battery.

10.8

3. DIMENSIONS

Dimensions shall be in accordance with the requirements of the attached drawing.

4. MASS

Mass shall not exceed 1.5 ounces (42.5 grams).

5. MARKINGS

Markings shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 11. and the attached drawing.

6. CONSTRUCTION

a. Assembly.

Eight cells connected in series and enclosed in a polypropylene white moulded case in accordance with the requirements of the attached drawing. Inter-cell connections shall be spot welded.

b. Cell details.

Size: MR9 (BS 397).

c. Terminations.

Shall be in accordance with the requirements of the attached drawing.

7. COMPONENT CELLS

The requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 9. shall apply, except that for clause 9.a. the minimum period shall be not less than 14 days.

8. STORAGE AND PERFORMANCE TESTS

a. Allocation of sample batteries.

(1) For Qualification Approval testing.

Shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 6.b.

(2) For Quality Assurance testing.

Number of sample batteries supplied shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 14.b. and shall be divided between tests shown in the table below as follows:

10% Jungle with the balance divided equally between the other four types of storage.

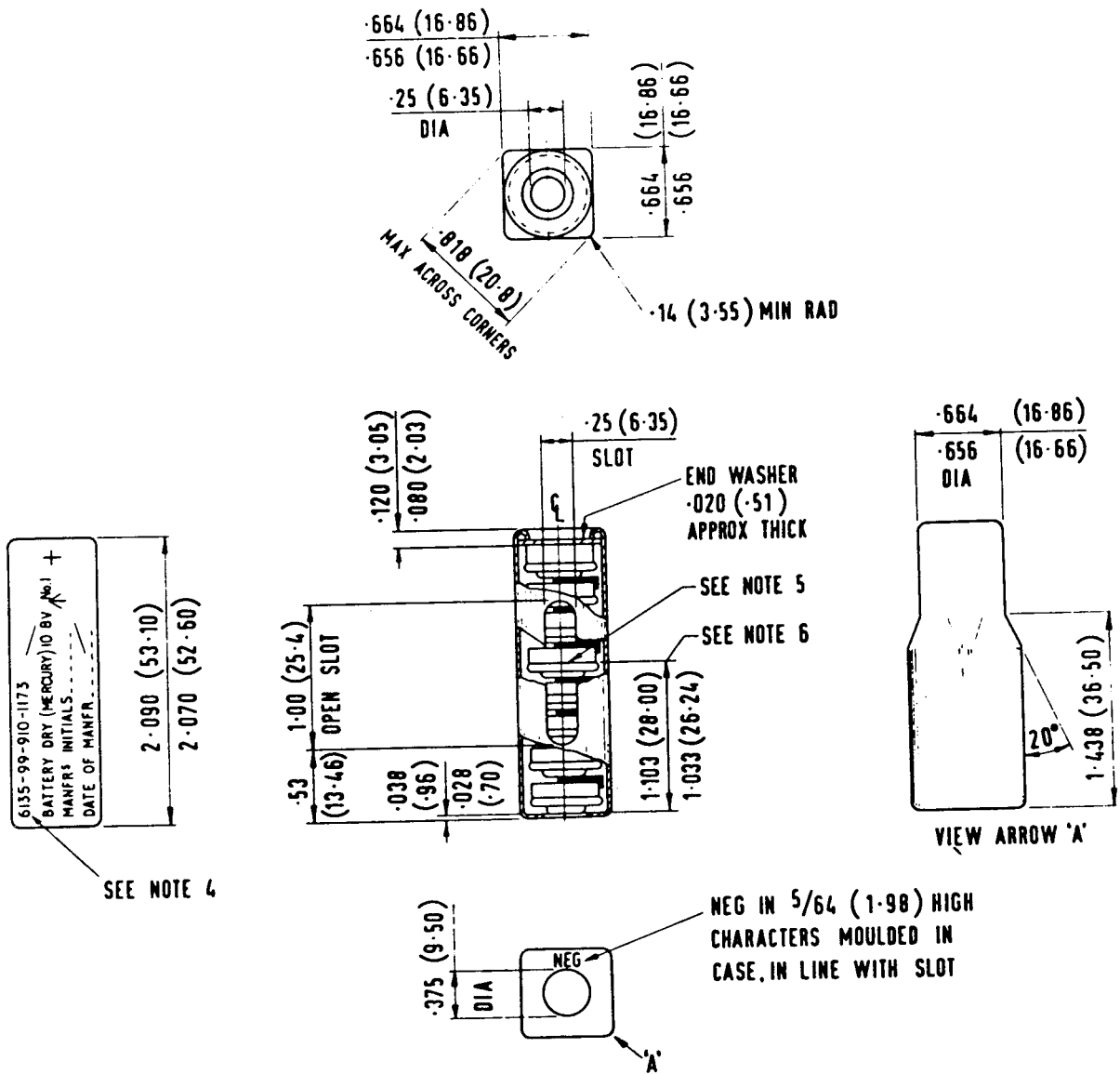
b. Storage conditions and performance requirements.

TYPE OF STORAGE	GENERAL SPECIFICATION CLAUSE	STORAGE PERIOD (WEEKS)	MINIMUM DISCHARGE LIFE AFTER STORAGE (HOURS)
Temperate (Short term)	17.a.	4	45
Temperate (Long term)	17.a.	104	40
∕ Jungle	17.c.	8	42
∅ Desert	17.b.	26	40
Temperate (Spare)	18.d.	-	-

Notes:

1. ∕ indicated insulation resistance after Jungle storage (General Specification DEF STAN 61 - 3 (PART 1), clause 19. except that the positive termination shall be used to be not less than 2 megohms.
2. ∅ indicates batteries stored singly.
3. The off load voltage of the sample battery measured at any time during storage shall be not less than 10.6 volts. The reading shall be taken at the end of a 30 second period.

8. c. Discharge test conditions.
- (1) Resistance load.
 2000 ohms.
 - (2) Discharge cycle.
 Continuous discharge.
 - (3) On-load voltage end-point.
 7.2 volts.



NOTES :-

- 1 ALL DIMENSIONS ARE IN INCHES (MILLIMETRE CONVERSIONS IN PARENTHESES)
2 UNLESS OTHERWISE SPECIFIED TOLERANCES ARE $\pm .01$ (0.25)
3 ASSEMBLY MUST BE TIGHT FIT IN THE MOULDED CASE
4 ALL MARKINGS SHALL BE IN 1/8 (3.2) CHARACTERS TO BE LEGIBLY
AND DURABLY MARKED ON SIDE OF CASE OPPOSITE TO SLOT
5 THE FOUR CELLS EXPOSED BY THE OPEN SLOT SHALL BE IMMEDIATELY
ADJACENT TO EACH OTHER. NO INSULATING OR SPACING MATERIAL SHALL
BE USED BETWEEN THESE FOUR CELLS
6 THIS DIMENSION SHALL BE MEASURED FROM THE MAIN NEGATIVE CONTACT
SURFACE OF THE BATTERY TO THE SHOULDER OF THE CELL INDICATED

THIRD ANGLE PROJECTION



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Removal of Product Qualification Approval

IMPORTANT ANNOUNCEMENT

1. This Standard contains a Product Qualification Approval (PQA) scheme. ⁱMOD policy requires that all PQA schemes are removed from Defence Standards called up in contracts placed after 1st January 1998.
2. Users of this Standard are to contact the Project Manager (PM), Equipment Support Manager (ESM) or Technical Service Authority (TSA) named in the contract or order, to identify whether there is a continuing need for an approvals scheme.
3. ⁱⁱProduct Conformity Certification (PCC) is a risk based process that replaces PQA. Once a risk has been identified PCC can be included as a contract clause. In exceptional circumstances agreement can be sought from AD/Stan for PCC to be included in a Defence Standard.
4. At the next revision of this Standard the PQA scheme will be removed.

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ⁱ Defence Council Instruction (General) 197/97; Quality Temporary Memorandum 5/98; Chief of Defence Procurement Instruction CDPI/TECH/250 (draft)

ⁱⁱ PCC is certification that a product meets its specification. When PC is required by the contract, the contractor is responsible for obtaining the necessary PCC. Certification shall be provided from a NAMAS accredited laboratory when appropriate. PCC shall apply where a Risk Assessment has been identified by the PM; ESM or TSA.