

SPECIFICATION
FOR
BATTERY, DRY (LECLANCHÉ), 15 V, No VL, NATO STOCK NO 6125-99-910-1168

This Supplement supersedes SUPPLEMENT NO 60 to DEF STAN 61 - 3 (PART 1), dated 19 March 1968

1. This Supplement is to be read 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.

1.5

b. Battery.

15

3. DIMENSIONS

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

4. MASS

Mass shall not exceed 1 ounce (28.35 grams).

5. MARKINGS

Marking 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.

Ten layer-type cells connected in series and enclosed in an insulating wrapper.

b. Cell details.

Size: F20 (BS 397).

c. Terminations.

Flat surface type in accordance with the requirements of the attached drawing.

7. 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 the tests shown in the table below as follows:

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

b. Accuracy of test apparatus.

Shall be in accordance with the requirements of the General Specification contained in DEF STAN 61 - 3 (PART 1), clause 16. except that the volt-meter shall have a resistance of 10 000 ohms per volt of scale with a full scale value of not more than 75 volts. The limit of error of measurement shall be 1% of scale range.

c. 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	1440
Temperate (Long term)	17.a.	52	960
Jungle	17.c.	8	1200
∅ Desert	17.b.	26	960
Temperate (Spare)	18.d.	-	-

Note:

∅ indicates batteries stored singly.

7. d. Discharge test conditions.

(1) Resistance load.

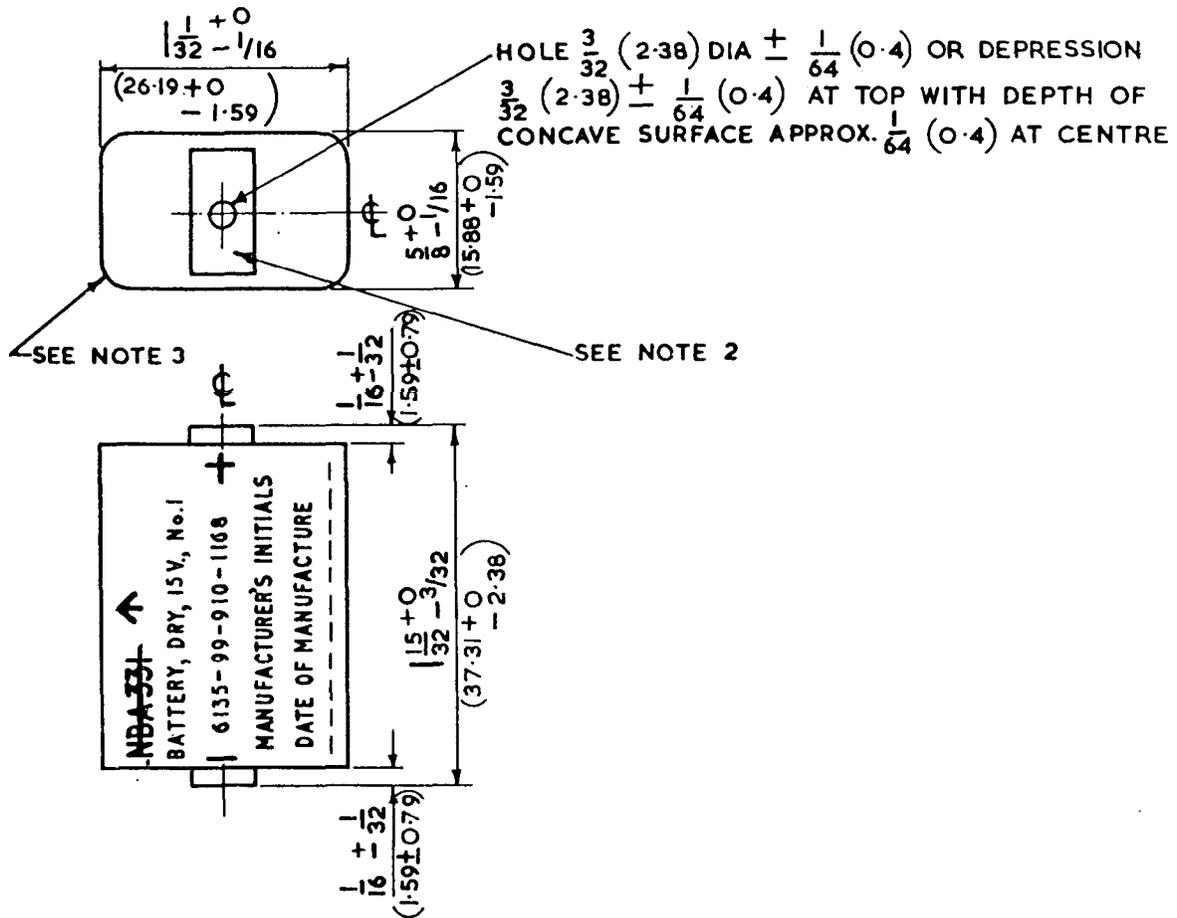
600 000 ohms (accuracy $\pm 1\%$).

(2) Discharge cycle.

Continuous discharge.

(3) On-load voltage end-point.

13 volts.



NOTES

1. ALL DIMENSIONS ARE IN INCHES WITH mm EQUIVALENTS
2. TWO BRASS CONTACT SURFACES, ONE CENTRED ON EACH END OF BATTERY SURFACES MAY BE RECTANGULAR AS SHOWN, BUT OTHER SHAPES ARE PERMISSIBLE. THE AREA OF THE SURFACE SHALL BE NOT LESS THAN THAT OF A CIRCLE OF $\frac{3}{16}$ (4.76) DIAMETER
3. SQUARE OR ROUND CORNERS ARE OPTIONAL
4. POLARITY SIGNS TO BE SHOWN AT EACH END OF THE BATTERY. POSITIVE END FACE TO BE IN RED OR ORANGE; NEGATIVE END FACE TO BE IN BLACK OR BLUE

THIRD ANGLE PROJECTION



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Date : 9 November 1998

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.