

SPECIFICATION
FOR

BATTERY, DRY (LECLANCHÉ), 12 V, NATO STOCK NO 6135-99-106-8596

This Supplement supersedes SUPPLEMENT NO 79 to
DEF STAN 61 - 3 (PART 1), dated 3 September 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.

12

3. DIMENSIONS

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

4. MASS

Mass shall not exceed 1 pound 4 ounces (567.0 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.

- (1) Eight layer-type cells connected in series and enclosed in an insulating container.
- (2) Stack-terminal connections shall be soldered, using insulated stranded wire.
- (3) Terminations shall be sealed in such a manner that the seal may be removed and replaced effectively to permit testing of the battery during storage.

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6. a. (4) After sealing, the battery is to be dipped in micro-crystalline wax at a temperature of not less than 100°C, for not less than five seconds, in such a manner that the battery is covered completely by a smooth and continuous protective wax film.
- b. Cell details.
Size: F100 (BS 397).
- c. Terminations.

Standard snap-fastener type connectors are to be in accordance with the requirements of IEC Recommendation Publication No 130-3, except that dimensions for the stud connectors are to be in accordance with the attached drawing and the parts are to be nickel plated.

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. 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	48
Temperate (Long term)	17.a.	52	32
∕ Jungle	17.c.	8	40
∅ Desert	17.b.	26	32
Temperate (Spare)	18.d.	-	-

Notes:

- ∕ indicates insulation resistance after Jungle storage (General Specification DEF STAN 61 - 3 (PART 1), clause 19.) to be not less than 2 megohms.
- ∅ indicates batteries stored singly.

7. c. Discharge test conditions.

(1) Resistance load.

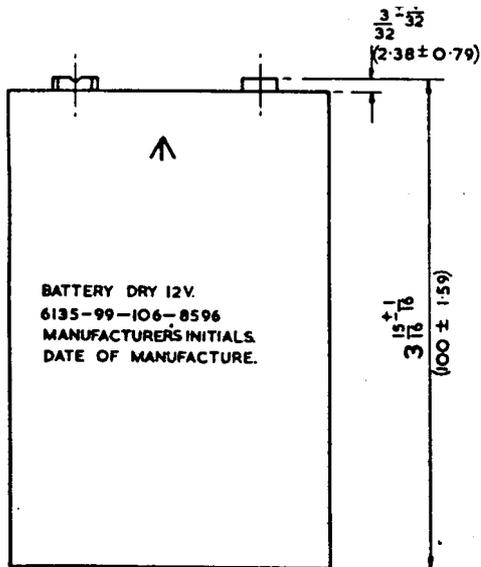
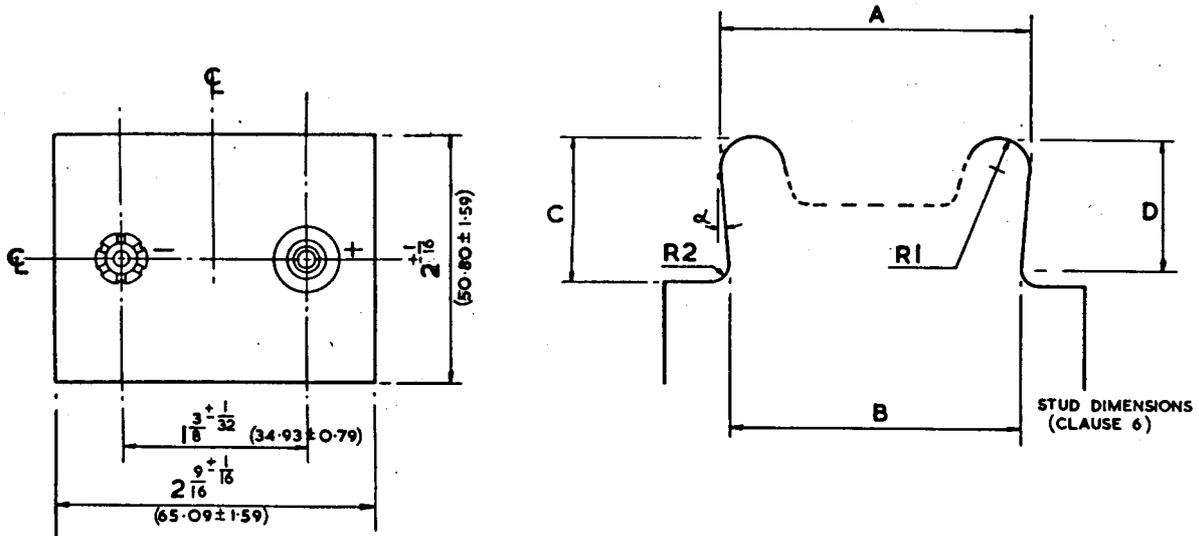
240 ohms.

(2) Discharge cycle.

Continuous discharge for eight hours per day on seven days per week.

(3) On-load voltage end-point.

8 volts.



	MAX		MIN	
	INS	mm	INS	mm
A	0.284	7.21	0.280	7.11
B	0.275	6.99	0.270	6.86
C	0.132	3.35	0.124	3.15
D	0.107	2.72	0.103	2.62
R1	0.026	0.66	0.024	0.61
R2	0.025	0.64	0.021	0.53
α	5.2°		1.75°	

NOTES :-

1. ALL DIMENSIONS ARE IN INCHES, WITH mm EQUIVALENTS AND SHALL INCLUDE THICKNESS OF MICRO-CRYSTALLINE WAX COATING
2. INDEPENDENT POSITIVE AND NEGATIVE CONNECTIONS SHALL BE PROVIDED ON THE EQUIPMENT TO CONNECT TO THIS BATTERY

THIRD ANGLE PROJECTION



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Our Reference : D/DStan/11/2

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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.