

European Aviation Safety Agency

European Technical Standard Order (ETSO)

Subject: RECORDER INDEPENDENT POWER SUPPLY

1 – Applicability

This ETSO gives the requirements which Recorder Independent Power Supply that are manufactured on or after the date of this ETSO must meet in order to be identified with the applicable ETSO marking.

ETSOs that may be used in conjunction with this ETSO are those covering:

- rechargeable lithium cells and lithium batteries,
- digital flight data recorder,
- cockpit voice recorder,
- data link recorder,
- cockpit image recorder.

2 – Procedures

2.1 – General

Applicable procedures are detailed in CS-ETSO, Subpart A.

2.2 – Specific

None.

3 – Technical conditions

3.1 – Basic

3.1.1 – Minimum performance standard

Standards set forth in Section 5 of EUROCAE ED-112, Minimum Operational Performance Specification for Crash Protected Airborne Recorder Systems, dated March 2003.

3.1.2 – Environmental standard

See CS-ETSO, Subpart A, paragraph 2.1.

3.1.3 – Software

See CS-ETSO, Subpart A, paragraph 2.2.

3.1.4 – Airborne electronic hardware

See CS-ETSO, Subpart A, paragraph 2.3.

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3.2 — Specific

Exceptions to ED-112. We make the following first two exceptions to ED-112 to comply with EASA requirements. The third item is an exception to requirements for installation, flight testing, aircraft maintenance, and others that do not pertain to MPS criteria specific to the ETSO equipment.

- RIPS location, Chapter 2-5.3.10: We don't require Chapter 2-5.3.10 as part of this ETSO. RIPS location must comply with applicable EASA requirements.
- Equipment Installation and Installed Performance (RIPS) Chapter 5-6.
- Other ED-112 requirements for installation, flight testing, aircraft maintenance, and others that do not pertain to MPS specific criteria.

3.2.1 — Failure condition classification

See CS-ETSO, Subpart A, paragraph 2.4.

Failure of the function defined in paragraph 3.1.1 of this ETSO has been determined to be a minor failure condition.

4 — Marking

4.1 — General

Marking as detailed in CS-ETSO, Subpart A, paragraph 1.2.

4.2 — Specific

None.

5 — Availability of referenced document

See CS-ETSO, Subpart A, paragraph 3.