

Indian Standard

LEAD-ACID TRACTION BATTERIES

PART 1 GENERAL REQUIREMENTS AND METHODS OF TEST

(Second Revision)

1 Scope and object

This part of IEC 60254 is applicable to lead-acid traction batteries used as power sources for electric propulsion.

The tests defined are relevant to all traction battery applications which include road vehicles, locomotives, industrial trucks and mechanical handling equipments. Tests which may be used specifically to test batteries developed for use in vehicles such as light passenger vehicles, motor cycles, light commercial vehicles, etc. may be found in alternative standards e.g. IEC 61982-2.

The object of this standard is to specify certain essential characteristics of traction batteries or cells, together with the relevant test methods of those characteristics.

Although Part 2 of this standard defines dimensions of commonly used traction cells, the tests in Part 1 may be applied to cells and monobloc batteries of other dimensions, if the application is appropriate.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60051 (all parts), *Direct acting indicating analogue electrical measuring instruments and their accessories*

IEC 60254-2 :1997, *Lead-acid traction batteries - Part 2: Dimensions of cells and terminals and marking of polarity on cells*