

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

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### **E- Transporters –**

**Part 3-1: Performance test method for total run time of e-scooters with consideration to environmental conditions of actual use**

### **E- Transporteurs –**

**Partie 3-1: Méthode d'essai de performance du temps de fonctionnement total d'une trottinette électrique en prenant en considération les conditions de température correspondant à l'utilisation réelle**



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## E-TRANSPORTERS –

**Part 3-1: Performance test method for the total run time of an e-scooter  
with consideration of temperature conditions of actual use**

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The text of this International Standard is based on the following documents:

Draft	Report on voting
125/92/FDIS	125/99/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 63281 series, published under the general title *e-Transporters*, can be found on the IEC website.

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## E-TRANSPORTERS –

### Part 3-1: Performance test method for the total run time of an e-scooter with consideration of temperature conditions of actual use

#### 1 Scope

This document specifies the test method for the total run time of an e-scooter for single-person transportation with consideration of the temperature conditions of actual use when the e-scooter is operated by the user in various temperatures for use on the road or in public spaces.

This document does not cover e-scooters for persons with disabilities or elderly persons. Also, this document excludes cargo e-scooters.

#### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 62301, *Household electrical appliances – Measurement of standby power*

IEC 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60068-2-1, *Environmental testing – Part 2-1: Tests – Test A: Cold*

IEC 60068-2-2, *Environmental testing – Part 2-2: Tests – Test B: Dry heat*

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

##### 3.1

##### **e-scooter**

electrically powered device for single-person transportation, consisting of a footboard mounted on two aligned wheels, a steering handlebar, and no seat

##### 3.2

##### **battery**

one or more cells fitted with devices necessary for use, for example case, terminals, marking and protective devices

[SOURCE: IEC 60050-482:2004, 482-01-04]