

SVENSK STANDARD

SS-EN ISO 18246:2017



Fastställt/Approved: 2017-03-13
Publicerad/Published: 2017-03-14
Utgåva/Edition: 1
Språk/Language: engelska/English
ICS: 43.140

Eldrivna mopeder och motorcyklar – Säkerhetskrav för anslutning till extern laddstation (ISO 18246:2015)

Electrically propelled mopeds and motorcycles – Safety requirements for conductive connection to an external electric power supply (ISO 18246:2015)

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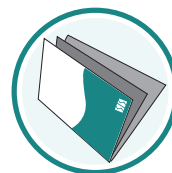
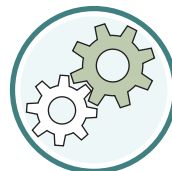
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EUROPEAN STANDARD

EN ISO 18246

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2017

ICS 43.140

English Version

Electrically propelled mopeds and motorcycles - Safety requirements for conductive connection to an external electric power supply (ISO 18246:2015)

Cyclomoteurs et motocycles à propulsion électrique - Exigences de sécurité relatives au couplage conductif à une station extérieure d'alimentation d'énergie (ISO 18246:2015)

Elektrisch angetriebene Mopeds und Motorräder - Sicherheitsanforderungen für die leitende Verbindung mit einer externen Energieversorgung (ISO 18246:2015)

This European Standard was approved by CEN on 20 February 2017.

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European foreword

The text of ISO 18246:2015 has been prepared by Technical Committee ISO/TC 22 “Road vehicles” of the International Organization for Standardization (ISO) and has been taken over as EN ISO 18246:2017 by Technical Committee CEN/TC 301 “Road vehicles” the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2017, and conflicting national standards shall be withdrawn at the latest by September 2017.

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Endorsement notice

The text of ISO 18246:2015 has been approved by CEN as EN ISO 18246:2017 without any modification.

Introduction

This International Standard prescribes basic safety requirements for electrically propelled mopeds and motorcycles, which are called electric vehicles, for simplicity, in this International Standard, while connected to an external electric power supply. The safety requirements for off-board chargers are described in IEC 60335-2-29 and will be described in the IEC 61851-3 series (under consideration).

This International Standard does not consider discharging from vehicle to grid.

This International standard does not standardize specific charging method.

Moped and motorcycle are defined in ISO 3833:1977, 3.4 and 3.5.

Electrically propelled mopeds and motorcycles — Safety requirements for conductive connection to an external electric power supply

1 Scope

This International Standard specifies safety requirements for conductive connection to an external electric power supply of electrically propelled mopeds and motorcycles.

It is not applicable to vehicles not in normal conditions, such as damaged vehicles and vehicles which have mechanical and/or electrical failure.

It applies only to on-board charging systems between the plug or vehicle couplers and RESS circuits.

The safety requirements for vehicles not connected to external power supply are specified in ISO 13063.

NOTE This International Standard does not contain requirements for bidirectional power flow.

It does not provide comprehensive safety information for manufacturing, maintenance and repair personnel.

2 Normative references

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

ISO 3864-1, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

ISO 20653, *Road vehicles — Degrees of protection (IP code) — Protection of electrical equipment against foreign objects, water and access*

IEC 60664-1 Ed. 2.0:2007, *Insulation coordination for equipment within low-voltage systems — Part 1: Principles, requirements and tests*

IEC 60950-1 Ed. 2.0:2005, *Information technology equipment — Safety — Part 1: General requirements*

3 Terms and definitions

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

3.1

basic insulation

insulation of hazardous-live-parts which provides basic protection

Note 1 to entry: This concept does not apply to insulation used exclusively for functional purposes.

[SOURCE: IEC 195-06-06]