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Electric mopeds and motorcycles — Terminology and classification

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TECHNICAL REPORT

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Electric mopeds and motorcycles - Terminology and classification

Cyclomoteurs et motocycles électriques ¿ Terminologie et classification

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Foreword

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The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 38, *Motorcycles and mopeds*.

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Electric mopeds and motorcycles - Terminology and classification

1 Scope

This Technical Report establishes a vocabulary of terms and the related definitions used in ISO/TC 22/SC 38 standards. These terms are specific to the electric propulsion systems of electrically propelled mopeds and motorcycles.

2 Terms and definitions

2.1 Complete motorcycle/moped

2.1.1 Type of Electric motorcycle and electric moped

2.1.1.1
motorcycle
two-wheeled motor-driven vehicle or three-wheeled motor-driven vehicle whose unladen weight does not exceed 400 kg

Note 1 to entry: *Mopeds* (2.1.1.2), as defined in 2.4, are not included in this definition.

[SOURCE: ISO 3833:1977, 3.5]

2.1.1.2
moped
two-wheeled or three-wheeled motor-driven vehicle with a maximum design speed not exceeding 50 km/h

Note 1 to entry: If the driving motor is an engine, its displacement or equivalent *capacity* (2.3.3.2) must not exceed 50 cm^3.

[SOURCE: ISO 3833:1977, 3.4]

2.1.1.3
electric vehicle
electrically propelled vehicle
EV
vehicle with one or more electric drive(s) for vehicle propulsion

[SOURCE: ISO 13063:2012, 3.19]

2.1.1.4
battery-electric vehicle
BEV
electric vehicle (2.1.1.3) with only a *traction battery* (2.3.1.3) as the power source for vehicle propulsion

Note 1 to entry: The abbreviation BEV is often shortened to EV .

[SOURCE: ISO 13063:2012, 3.6]

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2.1.1.5
hybrid electric vehicle
HEV
vehicle with at least one *RESS* (2.3.1.1) and one fuelled power source for vehicle propulsion

EXAMPLE ICE or fuel cell systems are typically types of fuelled power sources.

[SOURCE: ISO 13063:2012, 3.22]

2.1.1.6
externally chargeable hybrid-electric vehicle
HEV (2.1.1.5) with *RESS* (2.3.1.1) that is intended to be charged from an external electric energy source

Note 1 to entry: Externally chargeable HEVs are widely known as plug-in HEVs (PHEVs).

[SOURCE: ISO/TR 8713:2012, 2.34, modified]

2.1.1.7
fuel cell hybrid-electric vehicle
FCHEV
electrically propelled vehicle (2.1.1.3) with an *RESS* (2.3.1.1) and a fuelcell system as power source for vehicle propulsion

[SOURCE: ISO/TR 8713:2012, 2.36]

2.1.1.8
electric motorcycle
electrically propelled motorcycle
motorcycle (2.1.1.1) driven by electric motor with two or three wheels

2.1.1.9
electric moped
electrically propelled moped
moped (2.1.1.2) driven by electric motor with two or three wheels

2.1.2 Construction and components

2.1.2.1 Propulsion and driving device

2.1.2.1.1
auxiliary electric system
on-board vehicle system, other than for vehicle propulsion, which operates on electric energy

[SOURCE: ISO 13063:2012, 3.1]

2.1.2.1.2
propulsion system
combination of on-board power source for vehicle propulsion and power train

[SOURCE: ISO/TR 8713:2012, 2.56]

2.1.2.1.3
electric power train
power train, consisting of electric drive and drive train

[SOURCE: ISO/TR 8713:2012, 2.25]

2.1.2.1.4
hybrid power train
power train of an *HEV* (2.1.1.5), consisting of a fuelled power source and an *electric power train* (2.1.2.1.3)

[SOURCE: ISO/TR 8713:2012, 2.43]

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