



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 15194:2017+A1:2023

Cycles - Electrically power assisted cycles - EPAC Bicycles

Cycles - Cycles à assistance électrique -
Bicyclettes EPAC

Fahrräder - Elektromotorisch
unterstützte Räder - EPAC

08/2023

National Foreword

This European Standard EN 15194:2017+A1:2023 was adopted as Luxembourgish Standard ILNAS-EN 15194:2017+A1:2023.

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**NORME EUROPÉENNE
EUROPÄISCHE NORM**

August 2023

ICS 43.120; 43.150

Supersedes EN 15194:2017

English Version

Cycles - Electrically power assisted cycles - EPAC BicyclesCycles - Cycles à assistance électrique - Bicyclettes
EPACFahrräder - Elektromotorisch unterstützte Räder -
EPAC

This European Standard was approved by CEN on 28 May 2017 and includes Amendment approved by CEN on 22 August 2022.

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COMITÉ EUROPÉEN DE NORMALISATION
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Contents

Page

European foreword.....	6
Introduction	7
1 Scope.....	8
2 Normative references.....	8
3 Terms and definitions	10
4 Safety requirements and/or protective measures	17
4.1 General.....	17
4.2 Electrical requirements	17
4.2.1 Electric circuit	17
4.2.2 Controls and symbols	17
4.2.3 Batteries	18
4.2.4 Battery charger	18
4.2.5 Electric cables and connections	18
4.2.6 Wiring.....	19
4.2.7 Power cables and conduits	19
4.2.8 External and internal electrical connections.....	19
4.2.9 Moisture resistance.....	19
4.2.10 Mechanical strength test	20
4.2.11 Maximum speed for which the electric motor gives assistance	20
4.2.12 Start-up assistance mode	21
4.2.13 Power management	22
4.2.14 Maximum power measurement — Measurement at the engine shaft.....	23
4.2.15 Electro Magnetic Compatibility.....	24
4.2.16 Failure mode	24
4.2.17 Anti-tampering measure	24
4.3 Mechanical requirements	25
4.3.1 General.....	25
4.3.2 Sharp edges	26
4.3.3 Security and strength of safety-related fasteners	26
4.3.4 Protrusions.....	27
4.3.5 Brakes.....	27
4.3.6 Steering.....	40
4.3.7 Frames.....	51
4.3.8 Front fork	60
4.3.9 Wheels and wheel/tyre assembly	68
4.3.10 Rims, tyres and tubes.....	72
4.3.11 Front mudguard.....	74
4.3.12 Pedals and pedal/crank drive system	76
4.3.13 Drive-chain and drive belt.....	83
4.3.14 Chain-wheel and belt-drive protective device.....	84
4.3.15 Saddles and seat-posts	88
4.3.16 Spoke protector	94
4.3.17 Luggage carriers	94
4.3.18 Road-test of a fully-assembled EPAC.....	94

4.3.19	Lighting systems and reflectors	95
4.3.20	Warning device.....	96
4.3.21	Thermal hazards.....	96
4.3.22	Performance levels (PLrs) for control system of EPACs.....	96
4.4	List of significant hazards.....	96
5	Marking, labelling.....	97
5.1	Requirement.....	97
5.2	Durability test.....	98
5.2.1	Requirement.....	98
5.2.2	Test method.....	98
6	Instruction for use.....	98
	Annex A (informative) Example of relation between speed, torque and current	101
	Annex B (normative) Electromagnetic compatibility of EPAC and ESA	104
B.1	Conditions applying to EPAC and to electrical/electronic sub-assemblies (ESA)	104
B.1.1	Marking	104
B.1.2	Requirements.....	104
B.1.2.1	General requirements.....	104
B.1.2.2	Broad-band radiation from EPAC	106
B.1.2.3	Requirements relating to narrow-band radiation emissions from EPAC	107
B.1.2.4	Requirements regarding EPAC immunity to electromagnetic radiation	107
B.1.2.5	Requirements concerning broad-band ESA radiation	107
B.1.2.6	Requirements concerning narrow-band ESA radiation emission	108
B.1.2.7	Requirements concerning ESA immunity to electromagnetic radiation.....	108
B.2	Method of measuring broad-band electromagnetic radiation from EPA.....	108
B.2.1	Measuring equipment.....	108
B.2.2	Test method	109
B.2.2.1	General	109
B.2.2.2	Test conditions	109
B.2.2.3	State of the EPAC during the test.....	109
B.2.2.4	Antenna type, position and orientation	109
B.2.3	Measurement	109
B.3	Method of measuring narrow band electromagnetic radiation from EPAC	109
B.3.1	General	109
B.3.1.1	Measuring equipment.....	109
B.3.1.2	Test method	109
B.3.1.3	Test conditions	109
B.3.1.4	State of the EPAC during the tests.....	109
B.3.2	Antenna type, position and orientation	109
B.4	Methods of testing EPAC immunity to electromagnetic radiation.....	110

B.4.1 General.....	110
B.4.2 Expression of results.....	110
B.4.3 Test conditions.....	110
B.4.4 State of the EPAC during the tests	110
B.4.5 Type, position and orientation of the field generator	111
B.4.5.1 Type of field generator.....	111
B.4.5.2 Measurement height and distance.....	111
B.4.5.3 Position of the antenna in relation to the EPAC	111
B.4.5.4 Position of the EPAC	112
B.4.6 Requisite test and condition	112
B.4.6.1 Range of frequencies, duration of the tests, polarization.....	112
B.4.6.2 Tests to check deterioration in direct control.....	112
B.4.7 Generation of the requisite field strength.....	112
B.4.7.1 Test method	112
B.4.7.2 Field strength contour.....	113
B.4.7.3 Characteristics of the test signal to be generated	113
B.4.8 Inspection and monitoring equipment	114
B.5 Method of measuring broad-band electromagnetic radiation from separate technical units (ESAs)	114
B.5.1 General.....	114
B.5.1.1 Measuring equipment	114
B.5.1.2 Test method - Test conditions	114
B.5.2 State of the ESA during the test	114
B.5.3 Antenna type, position and orientation	114
B.6 Method of measuring narrow-band electromagnetic radiation from separate technical units (ESAs)	114
B.6.1 General.....	114
B.6.1.1 Measuring equipment	114
B.6.1.2 Test method	114
B.6.2 Test conditions.....	114
B.6.3 State of the ESA during the tests	114
B.6.4 Antenna type, position and orientation	114
B.7 Methods of testing the ESA immunity to electromagnetic radiation.....	115
B.7.1 General.....	115
B.7.2 Expression of results.....	115
B.7.3 Test conditions.....	115
B.7.4 State of the ESA during the tests	115

B.7.5 Requisite test and condition	115
B.7.5.1 Test methods	115
B.7.5.2 Range of frequencies, duration of the tests, polarization	115
B.7.5.3 Tests to check deterioration in direct control	115
B.7.6 Generation of the requisite field strength	116
B.7.6.1 Test method	116
B.7.6.2 Characteristics of the test signal to be generated	116
B.7.7 Inspection and monitoring equipment	116
B.8 ESD test	117
Annex C (informative) Steering geometry	118
Annex D (normative) Dummy fork characteristics	119
Annex E (informative) Explanation of the method of least squares for obtaining line of best fit and $\pm 20\%$ limit lines for braking performance linearity	121
Annex F (normative) Fork mounting fixture	124
Annex G (informative) Wheel/tyre assembly - Fatigue test	125
G.1 Requirements	125
G.2 Test method	125
Annex H (normative) Light, warning device, on/off symbols	127
Annex I (informative) Walk assist mode symbols	128
Annex ZA (informative) Relationship between this European Standard and the essential requirements of EU Directive 2006/42/EC aimed to be covered	129
Bibliography	133

European foreword

This document (EN 15194:2017+A1:2023) has been prepared by Technical Committee CEN/TC 333 "Cycles", the secretariat of which is held by UNI.

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 February 2024, and conflicting national standards shall be withdrawn at the latest by August 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes **[A1]** EN 15194:2017 **[A1]**.

[A1] EN 15194:2017+A1:2023 includes the following significant technical changes with respect to EN 15194:2017:

- 4.2.3 "Batteries": reference to EN standard applicable to batteries of EPAC has been updated with the new latest edition, in line with specific request of National Authority to reinforce Machinery directive requirements,
- Annex A "Example of recommendation for battery charging" has been removed. **[A1]**

This document includes Amendment 1 approved by CEN on 22 August 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags **[A1]** **[A1]**.

[A1] This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative Annex ZA, which is an integral part of this document. **[A1]**

This standard also includes all mechanic requirements applicable to the EPACs and is therefore a stand-alone document.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

This European Standard gives requirements for electrically power assisted cycles (EPAC).

This European Standard has been developed in response to demand throughout Europe. Its aim is to provide a standard for the assessment of electrically powered cycles of a type which are excluded from type approval by Regulation (EU) No 168/2013.

Due to the limitation of the voltage to 48 V d.c., there are no special requirements applicable to the EPAC in regard to protection against electrical hazards.

Following the completion of a risk analysis, the focus in this standard is on EPAC as bicycles for city and trekking. Folding bicycles are included.

This document is a type C standard as stated in EN ISO 12100. The machinery concerned and the extent to which hazards, hazardous situations and hazardous events covered are indicated in the scope of this document.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards, for machines that have been designed and built according to the provisions of this type C standard.

In real life situation an EPAC can fall over to the side causing the battery holder to break without damage to the battery case itself. While the standard contains a strength test for the battery an additional test is required for the situation described. This will be considered at the next revision. The battery holder needs to withstand this realistic and typical situation. Risk assessment carried out by the manufacturer should identify suitable measures to deal with this situation until it can be dealt with in the standard.