ISO 19453-1:2018-03 (E)

Road vehicles - Environmental conditions and testing for electrical and electronic equipment for drive system of electric propulsion vehicles - Part 1: General

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 2

4 Classificationbymountinglocation 2
4.1 Powertrain 2
4.2 Passenger compartment 3
4.3 Luggage compartment/load compartment 3
4.4 Mounting on exterior/in cavities 3
4.5 Other mounting location 3

5 Operating modes 4
5.1 Operating mode 1 4
5.2 Operating mode 2 4
5.3 Operating mode 3 4
5.4 Operating mode 4 4

6 Functionalstatusclassification 4
6.1 General 4
6.2 Class A 4
6.3 Class B 5
6.4 Class C 5
6.5 Class D 5
6.6 Class E 5

7 Tests and requirements 5
7.1 General 5
7.2 General test conditions 5
7.3 Test sequence 6

8 Designation 6
8.1 Coding 6
8.2 Use of Code Z "as agreed" 7

Annex A (informative) Example of a test plan 8

Annex B (informative)Exampleoflifetest/reliabilitystatement 9

Bibliography 13