# ISO 4106:2026-03 (E)

## Motorcycles - Engine test code - Net power

## Contents

Page


**Foreword** ..... **iv**

**Introduction** ..... **vi**

**1 Scope** ..... **1**

**2 Normative references** ..... **1**

**3 Terms and definitions** ..... **1**

**4 Symbols** ..... **2**

**5 Standard reference conditions** ..... **3**

**6 Tests** ..... **3**

6.1 General ..... 3

6.2 Measuring equipment and instrument accuracy ..... 3

6.2.1 Torque ..... 3

6.2.2 Engine speed ..... 3

6.2.3 Fuel flow ..... 3

6.2.4 Fuel temperature ..... 3

6.2.5 Engine inlet air temperature ..... 3

6.2.6 Barometric pressure ..... 3

6.2.7 Back pressure in exhaust system ..... 3

6.2.8 Test room humidity ..... 4

6.3 Setting and test conditions ..... 4

6.3.1 Equipment and auxiliaries ..... 4

6.3.2 Test conditions ..... 6

6.3.3 Test atmospheric conditions ..... 7

6.4 Test procedure ..... 7

**7 Torque, power and specific fuel consumption** ..... **8**

7.1 Calculation of measured torque, measured power and specific fuel consumption ..... 8

7.2 Net torque and net power ..... 8

7.2.1 General ..... 8

7.2.2 Determination of correction factor $\alpha_m$ ..... 8

7.2.3 Calculation of net torque and net power ..... 9

7.3 Corrected net torque and corrected net power ..... 9

7.3.1 General ..... 9

7.3.2 Determination of correction factor $\alpha_a$ ..... 10

7.3.3 Calculation of corrected net torque and corrected net power ..... 10

**8 Test report** ..... **10**

8.1 General ..... 10

8.2 The description of test report ..... 10

8.2.1 General ..... 10

8.2.2 Essential characteristics of spark-ignition engines ..... 10

8.2.3 Test conditions during net power measurement ..... 12

8.3 Statement of results ..... 13

**Annex A** (normative) **Test method for compression-ignition engines** ..... **16**

**Annex B** (informative) **Example for record form of test fuel specifications** ..... **22**

**Bibliography** ..... **24**