

ISO 20762:2018 (E)

Electrically propelled road vehicles — Determination of power for propulsion of hybrid electric vehicle

Contents

	Foreword
	Introduction
1	Scope
2	Normative references
3	Terms and definitions
4	Symbols and abbreviated terms
5	Test condition
5.1	Test instrumentation
5.1.1	Chassis dynamometer
5.1.2	Test room
5.1.3	Cooling fan
5.2	Measurement
5.2.1	Measurement items and accuracy
5.2.2	Measurement frequency
6	Test procedure
6.1	General
6.2	Preparation of chassis dynamometer
6.2.1	Roller
6.2.2	Tire slippage
6.2.3	Chassis dynamometer warm-up
6.2.4	Chassis dynamometer control
6.3	Preparation of vehicle
6.4	Preparation of measurement devices
6.5	Initial charge of RESS
6.6	Vehicle soak
6.7	Vehicle installation
6.8	Test sequence
6.8.1	General
6.8.2	Vehicle conditioning
6.8.3	RESS adjustment
6.8.4	Vehicle operation
6.8.5	Pedal operation
6.8.6	End of vehicle running
6.9	Calculation of HEV system power
6.9.1	General
6.9.2	Calculation for TP1
6.9.3	Calculation for TP2
6.9.3.1	Calculation
6.9.3.2	ICE power correction factors
6.9.3.3	Corrected HEV system power for test procedure option 2 (TP2)
6.10	Determination of maximum HEV system power
7	Test report
7.1	General
7.2	Calculated values based on measured data
7.3	Measured data

- 7.4 Environmental data
- 7.5 Assumed values
- 7.6 General vehicle data based on the manufacturer's information (informative)

Annex A (informative) Examples for gearbox system efficiency factor (includes gearbox and differential) at maximum HEV system power

- A.1 General
- A.2 Series hybrid-electric vehicle (Series HEV)
- A.3 Parallel hybrid-electric vehicle (Parallel HEV)
- A.4 Power split hybrid-electric vehicle (power split HEV)

Page count: 17