

# ISO 8854:2012-06 (E)

## Road vehicles - Alternators with regulators - Test methods and general requirements

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>3</b>	<b>Test conditions .....</b>	<b>2</b>
3.1	Ambient temperature .....	2
3.2	Air pressure .....	2
3.3	Sense of rotation .....	2
3.4	Drive control .....	2
3.5	Load current control .....	2
3.6	Measuring accuracy .....	2
3.7	Measured values .....	3
<b>4</b>	<b>Test equipment .....</b>	<b>3</b>
4.1	Ambient air .....	3
4.2	Terminal connecting plan .....	3
4.3	Measuring system .....	4
<b>5</b>	<b>Measurement procedure .....</b>	<b>5</b>
5.1	Current/rotational frequency characteristic .....	5
5.2	Partial load measurement .....	6
5.3	Testing functional ability of regulator .....	6
5.4	Load dump .....	6
5.5	Voltage ripple .....	9
5.6	Efficiency determination .....	12
<b>6</b>	<b>Method of calculation of efficiency .....</b>	<b>13</b>
6.1	Determination of efficiency .....	13
6.2	Determination of weighted efficiency .....	13
<b>7</b>	<b>Presentation of results .....</b>	<b>13</b>
<b>Bibliography .....</b>		<b>15</b>