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No. S 768

ROAD TRAFFIC ACT (CHAPTER 276)

ROAD TRAFFIC (POWER-ASSISTED BICYCLES — APPROVAL) RULES 2004

ARRANGEMENT OF RULES

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In exercise of the powers conferred by sections 6 and 90 of the Road Traffic Act, the Land Transport Authority of Singapore hereby makes the following Rules:

Citation and commencement

1. These Rules may be cited as the Road Traffic (Power-Assisted Bicycles — Approval) Rules 2004 and shall come into operation on 1st January 2005.

Definitions

2. In these Rules —

“authorised examiner” means a person authorised by the Registrar under section 90(2) of the Act;

“EN 15194” means the European Standard EN 15194:2009 +A1:2011 titled “Cycles — Electrically power assisted cycles — EPAC Bicycles” approved by the European Committee for Standardization (called in this definition

CEN) on 22 November 2008 but does not include clause 4.2.4.3 in EN 15194:2009+A1:2011, and as amended by Amendment 1 approved by CEN on 8 October 2011;

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“Revised EN 15194” means the European Standard EN 15194:2017 titled “Cycles — Electrically power assisted cycles — EPAC Bicycles” approved by the European Committee for Standardization on 28 May 2017 but does not include clause 4.2.12 in EN 15194:2017.

[S 445/2021 wef 01/07/2021]

[Deleted by S 450/2017 wef 14/08/2017]

Power-assisted bicycles to be approved and sealed

3.—(1) No person may keep or use a power-assisted bicycle unless the power-assisted bicycle —

(a) complies with the specified requirements; and

[S 734/2015 wef 01/12/2015]

(b) has been approved and sealed by an authorised examiner in accordance with these Rules.

[S 734/2015 wef 01/12/2015]

[S 450/2017 wef 14/08/2017]

(2) In this rule, “specified requirements” means —

(a) in the case of a power-assisted bicycle that has been approved and sealed by an authorised examiner before 1 December 2015 under these Rules, the requirements specified in Part 1 of the Schedule;

(b) in the case of a power-assisted bicycle that has been approved and sealed by an authorised examiner between 1 December 2015 and 31 January 2016 (both dates inclusive) under these Rules, the requirements specified in either Part 1 or 2 of the Schedule;

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(c) in the case of a power-assisted bicycle that has been approved and sealed by an authorised examiner between

1 February 2016 and 30 June 2021 (both dates inclusive) under these Rules, the requirements specified in Part 2 of the Schedule;

[S 445/2021 wef 01/07/2021]

[S 159/2024 wef 01/03/2024]

- (d) in the case of a power-assisted bicycle that has been approved and sealed by an authorised examiner between 1 July 2021 and 29 February 2024 (both dates inclusive) under these Rules, the requirements specified in Part 3 of the Schedule; and

[S 159/2024 wef 01/03/2024]

- (e) in any other case, the requirements specified in Part 4 of the Schedule.

[S 159/2024 wef 01/03/2024]

[S 734/2015 wef 01/12/2015]

[S 450/2017 wef 14/08/2017]

Approval of power-assisted bicycles

4.—(1) Any person who wishes to obtain an authorised examiner’s approval in respect of any model of power-assisted bicycle shall apply to him for such approval in such form or manner as he may determine.

(2) An application under paragraph (1) shall be accompanied by such fee, information and documents as the authorised examiner may require.

(3) Upon receiving an application under paragraph (1), the authorised examiner shall —

- (a) examine the power-assisted bicycle in respect of which the application is made; and
- (b) approve the power-assisted bicycle if the authorised examiner is satisfied that the power-assisted bicycle —
- (i) if examined before 1 December 2015, complies with the requirements specified in Part 1 of the Schedule;
- (ii) if examined between 1 December 2015 and 31 January 2016 (both dates inclusive), complies

with the requirements specified in either Part 1 or 2 of the Schedule;

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- (iii) if examined between 1 February 2016 and 30 June 2021 (both dates inclusive), complies with the requirements specified in Part 2 of the Schedule;

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- (iv) if examined between 1 July 2021 and 29 February 2024 (both dates inclusive), complies with the requirements specified in Part 3 of the Schedule; and

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- (v) in any other case, complies with the requirements specified in Part 4 of the Schedule.

[S 159/2024 wef 01/03/2024]

[S 734/2015 wef 01/12/2015]

Sealing of power-assisted bicycles

5.—(1) Every power-assisted bicycle that has been approved by an authorised examiner under rule 4 shall be affixed with such seal, mark or other device and in such manner as the Registrar may determine for the purpose of indicating that that power-assisted bicycle has been so approved.

(2) Any person who —

(a) without the authority of the Registrar, removes or alters; or

(b) forges, defaces, mutilates or tampers with,

any seal, mark or other device affixed to a power-assisted bicycle under paragraph (1) shall be guilty of an offence.

Waiver

6. The Registrar or an authorised officer may, in any particular case, waive the operation of any provision in the Schedule to these Rules subject to such conditions as the Registrar or the authorised officer may impose.

[S 734/2015 wef 01/12/2015]

THE SCHEDULE

Rules 3, 4 and 6

REQUIREMENTS TO BE COMPLIED WITH BY POWER-ASSISTED BICYCLE

PART 1

1. The aggregate maximum power output rating of the power-assisted bicycle's electric motor must not exceed 200 watts.
2. The maximum speed of the power-assisted bicycle must not exceed 25 km/h when solely propelled by its electric motor.
3. The electric motor of the power-assisted bicycle must be designed such as to —
 - (a) stop providing power assistance when the power-assisted bicycle attains a speed of 25 km/h or more; and
[S 467/2020 wef 15/06/2020]
 - (b) reduce and stop providing power assistance when the rider of the power-assisted bicycle stops pedalling.

PART 2

1. Subject to paragraphs 2 to 5 of this Part, the power-assisted bicycle must comply with the requirements set out in either EN 15194 or Revised EN 15194.
[S 445/2021 wef 01/07/2021]
2. The maximum continuous rated power of the power-assisted bicycle's electric motor must not exceed 250 watts.
3. The electric motor of the power-assisted bicycle must —
 - (a) progressively reduce power assistance as the speed of the power-assisted bicycle approaches the lower of the following:
 - (i) 25 km/h;
 - (ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance;
[S 467/2020 wef 15/06/2020]
 - (b) stop providing power assistance when the speed of the power-assisted bicycle reaches or exceeds the lower of the following:
 - (i) 25 km/h;
 - (ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance; and
[S 467/2020 wef 15/06/2020]

THE SCHEDULE — *continued*

(c) reduce and stop providing power assistance when the rider of the power-assisted bicycle stops pedalling.

4. The power-assisted bicycle must not be equipped with any throttle or start-up assistance feature.

[S 467/2020 wef 15/06/2020]

5. The unladen weight of the power-assisted bicycle must not exceed 20 kilograms.

PART 3

1. Subject to paragraphs 2 to 5 of this Part, the power-assisted bicycle must comply with the requirements set out in Revised EN 15194.

2. The maximum continuous rated power of the power-assisted bicycle's electric motor must not exceed 250 watts.

3. The electric motor of the power-assisted bicycle must —

(a) progressively reduce power assistance as the speed of the power-assisted bicycle approaches the lower of the following:

(i) 25 km/h;

(ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance;

(b) stop providing power assistance when the speed of the power-assisted bicycle reaches or exceeds the lower of the following:

(i) 25 km/h;

(ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance; and

(c) reduce and stop providing power assistance when the rider of the power-assisted bicycle stops pedalling.

4. The power-assisted bicycle must not be equipped with any throttle or start-up assistance feature.

5. The unladen weight of the power-assisted bicycle must not exceed 20 kilograms.

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PART 4

1. Subject to paragraphs 2 to 9 of this Part, the power-assisted bicycle must comply with the requirements set out in Revised EN 15194.

2. The maximum continuous rated power of the power-assisted bicycle's electric motor must not exceed 250 watts.

THE SCHEDULE — *continued*

3. The electric motor of the power-assisted bicycle must —
- (a) progressively reduce power assistance as the speed of the power-assisted bicycle approaches the lower of the following:
 - (i) 25 km/h;
 - (ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance;
 - (b) stop providing power assistance when the speed of the power-assisted bicycle reaches or exceeds the lower of the following:
 - (i) 25 km/h;
 - (ii) the speed at which the power-assisted bicycle's electric motor is designed to stop providing power assistance; and
 - (c) reduce and stop providing power assistance when the rider of the power-assisted bicycle stops pedalling.
4. The power-assisted bicycle must not be equipped with any throttle or start-up assistance feature.
5. The unladen weight of the power-assisted bicycle must not exceed 20 kilograms.
6. The length of the power-assisted bicycle, including the body of the power-assisted bicycle and all equipment and accessories (if any) attached to the power-assisted bicycle, must not exceed 2,600 millimetres.
7. The width of the power assisted-bicycle, including the body of the power-assisted bicycle and all equipment and accessories (if any) attached to the power-assisted bicycle, must not exceed 1,300 millimetres.
8. The power-assisted bicycle must not be designed to be ridden in a reclined or partially-reclined position.
9. The pedals of the power-assisted bicycle must not be designed to be operated by the rider's hands, or both the rider's hands and feet.

[S 159/2024 wef 01/03/2024]

[S 734/2015 wef 01/12/2015]

Made this 23rd day of December 2004.

MICHAEL LIM CHOO SAN
Chairman,
Land Transport Authority
of Singapore.

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(To be presented to Parliament under section 141(1) of the Road Traffic Act).