

Our Reference: Cir 2019-05

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To: All persons supplying power banks

Subject: Revised Safety Requirements for Portable Power Banks

The purpose of this circular is to inform all persons supplying portable power banks on the revised requirements for the device. This circular supersedes the Consumer Goods Safety Requirements Notice No. 1 of 2015.

Portable power banks are regulated under the Consumer Protection (Consumer Goods Safety Requirements) Regulations (or “CGSR”). Under the CGSR, persons supplying consumer goods in Singapore shall ensure that these products comply with the applicable safety standards.

A “portable power bank” is defined as any portable energy-storage device containing secondary batteries with charging circuitry, which is used to charge portable consumer electronic devices via DC output of up to 12 volts. The revised definition arose from technological advancements where it is observed that power banks of higher voltages are being supplied in the consumer market for charging of consumer electronics such as laptops and phablets.

The following products do not fall within the above definition:

- Products with AC input
- Products with jump starter function
- Rechargeable batteries and their chargers, sold as separate products
- Power packs intended for charging high power industrial devices
- Uninterruptible Power Supply (UPS) systems

Besides IEC 60950 for IT equipment, Enterprise Singapore will also accept IEC 62368 to meet the safety requirements for power banks supplied in the market. The table below provides more details.

Consumer Goods	Safety Requirements
Portable power banks	<p>1 Portable power banks shall comply with the requirements of the following safety standards:</p> <p>1.1 IEC 62133:2012 <i>Secondary cells and batteries containing alkaline or non-acid electrolytes – Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications;</i></p> <p>AND (option between 1.2A or 1.2B)</p> <p>1.2A IEC 60950-1:2005+A1:2009+A2:2013 <i>Information technology equipment – Safety – Part 1: General requirements; or</i></p> <p>1.2B IEC 62368-1:2018 <i>Audio/video, information and communication technology equipment – Part 1: Safety requirements</i></p> <p>OR</p> <p>1.3 Any other industry standard specific to power banks.</p> <p>2 Portable power banks shall be supplied with the following safety information:</p> <p>2.1 'Instructions for use' as specified below</p> <p>2.2 Instructions on how to charge the portable power bank</p> <p>2.3 Information on the minimum and maximum operating temperatures of the portable power bank</p>
<p>Minimum Instructions for Use for Portable Power Banks to be Provided with Portable Power Banks to the Consumer</p> <ul style="list-style-type: none"> a) The portable power bank will generate heat when charging. Always charge in a well-ventilated area. Do not charge under pillows, blankets or on flammable surfaces. b) Keep the portable power bank away from heat sources, direct sunlight, combustible gas, humidity, water or other liquids. c) Do not disassemble, open, microwave, incinerate, paint or insert foreign objects into the portable power bank. d) Do not subject the portable power bank to mechanical shock such as crushing, bending, puncturing or shredding. Avoid dropping or placing heavy object on the portable power bank. e) Do not short-circuit the portable power bank or store it in a receptacle where it may be short-circuited by other metallic or conductive objects. f) Portable power bank usage by children should be supervised. g) Please read the operating instructions (including charging instructions and information on the minimum and maximum operating temperatures), supplied with the portable power bank. 	

h) Do not operate the portable power bank if it has been wet or otherwise damaged, to prevent electric shock, explosion and/or injury. Contact the dealer or authorised agent for assistance.

For more information about the CGSR, please visit <https://www.enterprisesg.gov.sg/consumer-protection>.

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