

Unofficial Translation TIS2879-2560

Portable Power Bank – Safety Requirement

1. Scope

1.1 This industrial product standard covers safety requirements of portable power bank that is portable power storage containing secondary battery and electric charging circuit with DC output voltage not over 6V at least 1 output. This includes power bank that supports quick charge feature to charge power to electrical and electronic appliances. And in this industrial product standard will call as “power bank”.

1.2 This industrial product standard cover usage of power bank with intended and reasonable unintended usage. This industrial product standard does not cover.

- Electrical product containing battery which can supply energy to other equipment. In which this energy supplying feature is not the main feature of the product such as portable speaker with output voltage, portable computer.

- Battery with output power over 6V in every channel such as battery used to start vehicle engine.

- UPS

2. Reference documents

Below reference documents are used along with this standard. In case of specifying publishing year, the specified publishing year of standard shall be used. In case the reference documents is not identified with publishing year, the latest publishing year shall be used.

TIS 2217 Secondary cells and batteries containing alkaline or other non-acid electrolytes – Safety requirements for portable sealed secondary cells

TIS 1561 Information technology equipment-Safety Book1: General requirements

3. Definition

3.1 Class II equipment means equipment in which protection against electric shock does not rely on basic insulation only, but in which additional safety precautions such as double insulation or reinforced insulation are provided, there being no provision for protective earthing.

4. Test requirements

4.1 Cell and battery that is used for power bank shall be complied with safety requirements under TIS2217

Testing shall be arranged as per TIS2217

4.2 Power bank shall be complied with safety requirements under TIS1561.


Testing shall be arranged as per TIS1561

5. Marking and Recommendation

5.1 Marking on power bank shall be permanent, legible and easily visible.

Test for marking and labeling endurance shall be conducted as per TIS1561 clause 1.7.11

Power bank shall contains following marking

- Manufacturer name or distributor name, trademark or identification mark, and country of manufacturing
- Model number or reference model name, and serial number or production serial number
- Symbol  (IEC60417-5172 (DB:2003-02)) for product class II only
- Rated Input Voltage in Volt (V)
- Rated Output DC Voltage (V)
- Rated Input Current in milliamper (mA) or ampere (A)
- Rated Output Current in milliamper (mA) or ampere (A)
- Rated Input Frequency or Rated Frequency Range in Hertz (Hz) except that it is power bank designed for direct current only
- Rated Capacity in milliamper hour (mAH) or ampere hour (Ah)
- Month/Year of manufacture

5.2 Recommendation

Required safety information under this industrial standards, shall be included in operating instruction provided with power bank:

(a) General operating instruction as per below information.

- ความร้อนที่เกิดจากการอัดประจุไฟฟ้า การอัดประจุไฟฟ้าควรทำในบริเวณที่มีอากาศถ่ายเทได้ดี ไม่อัด

ประจุไฟฟ้าใต้หมอน ผ้าห่ม หรือบนพื้นผิวที่ติดไฟง่าย และไม่อัดประจุบนพื้นผิวที่เป็นโลหะ

(Heat generated from charging. Charging should be done in area with good air ventilation. Do not charge under pillow, blanket, or on flammable surface and do not charge on metal surface.)

- ไม่ควรเก็บแบตเตอรี่สำรองไฟฟ้าไว้ใกล้แหล่งความร้อน รับแสงแดดโดยตรง แก๊สที่ติดไฟได้ ความชื้น น้ำ หรือของเหลว

(Do not store power bank near to heat source, directly exposed to sunlight, flammable gas, humidity, water, or liquid.)

- ไม่ควรถอดชิ้นส่วน เปิด เมา หรือสอดแทรกสิ่งแปลกปลอมเข้าไปในแบตเตอรี่สำรองไฟฟ้า

(Do not dismantle, open, burn, or insert foreign material into power bank.)

- ไม่ควรให้แบตเตอรี่สำรองไฟฟ้าได้รับแรงกระแทก ถูกกดทับ ถูกงอ หรือ ถูกเจาะ

(Do not get impact, pressure on, bend, or drill power bank.)

- ไม่ทำให้แบตเตอรี่สำรองไฟฟ้าลัดวงจร หรือเก็บไว้ในบรรจุภัณฑ์ที่อาจลัดวงจรผ่านโลหะตัวนำอื่น ๆ

(Do not short circuit or keep power bank in any enclosure that may cause short circuit via other conductive material.)

- ไม่ใช้งานหากเปียกหรือได้รับความเสียหายแบบอื่น เพื่อป้องกันช็อกไฟฟ้า และการระเบิด

(Do not use when wet or power bank is damaged to prevent electric shock and explosion.)

- ควรอ่านข้อควรปฏิบัติที่ให้มากับแบตเตอรี่สำรองไฟฟ้า

(Read instruction manual provided with power bank.)

(b) Charging instruction

(c) Information of heat generating in normal operation of power bank.

(d) Properly dispose such as provided with do not dispose in trash bin

Remark: all information shall be in Thai

General marking requirements as per TISI regulation

1. TIS logo with standard number

Note: There is no specific requirement for the size and color of the mark as long as it is legible.).



TIS 2879-25xx

2. The label can either be marked on the product or on its packaging (when it is not practical to be marked on the product).

3. The TISI standard number (TIS2879-25xx) should be marked underneath TISI logo. 25xx is year of issuing standard. Please check for final number xx before apply marking. (test sample should not bear this mark, we only display this mark after getting TIS certificate).
4. The name of the importer