# Requirement of fuses on IEC60950

## 1. Outline of IEC60950

IEC60950 is the international safety standard applicable for information technology equipment, including electrical business equipment and associated equipment, with rated voltage less than 600V

For example ;

- ・Data/Documents Processing Equipments
- ・Computer
- ・Office shredder
- ・Data Terminal
- ・Data Circuit Terminating Equipment
- ・Private Branch Switching Equipment
- ・Answering Machine
- ・Copying Machine
- ・IC Recorder

etc..

Generally, slot-in type power supply is considered as a part of information processing equipment, due to its usage. Therefore, IEC 60950 is applicable for such power supply

## 2. Requirement to fuses

On the official document of IEC60950, there is an article regarding short-circuit current.

**In case that fuses complying with IEC60127 are used in primary circuit (= a circuit which is directly connected to AC main supply), it is approved to use fuses with low-breaking or medium-breaking capacity, if estimated short-circuit is less than 35A or 10 times the rated current of the fuses.**

(customer can select fuses other than high-breaking capacity)

Furthermore, if fuses complying with IEC60127 are used, fuses are not requested for additional testing which is requested by safety standard of the equipment.

## 3. Corresponding Daito Fuses ※ complying IEC60127-4

**BE, SBE, BE-P**：Rated voltage AC125V, Breaking capacity 50A

**BL, SBL**：Rated voltage AC250V, Breaking capacity 100A

※On IEC60127-3(applicable for radial/tubular fuses), maximum breaking capacity is 50A
Therefore, customer can **cover higher breaking capacity, by selecting IEC60127-4 complying**

## <Ref.>table of requirement to fuses on IEC60950 & IEC60127-4

| IEC No. | | Application | Rated Voltage | Rated Current | Breaking Capacity | Daito Fuses |
|---|---|---|---|---|---|---|
| 60950 | | Information technology equipment with rated current less than 600V | No requirement for fuses | No requirement for fuses | **it is approved to use fuses with low-breaking or medium-breaking capacity, if estimated short-circuit is less than 35A or 10 times the rated current of the fuses.** **eg:it is approved to select BL100(10A), if estimated short-circuit current is less than 10 times of rated** | |
| 60127-4 | SS1 (Through-hole) | Universal Modular Fuse-links (UMF) for for protection of electronic equipment and | AC32V | 0.032～10A | 35A or 10 times of Rated current | - |
| | | | AC63V | | 35A or 10 times of Rated current | - |
| | | | **AC125V** | | **50A or 10 times of Rated current** | **BE, SBE, BE-P** |
| | | | **AC250V (low-breaking capacity)** | | **100A** | **BL, SBL** |
| | | | AC250V (intermediate-breaking | | 500A | - |
| | | | AC250V (high-breaking capacity) | | 1500A | - |

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