

1. Flyback converter 計算(112mid期中考類似)
2. PFC計算(講義例題類似)
3. DC motor計算(類似例題)
4. 給一張圖問哪些東西屬於甚麼safeguard(ex4.1類似)
5. 考這種類似題，面積跟距離要保持安全範圍

4. Accessibility to electrical energy sources

4.1. For ordinary persons, the following shall not be accessible

外露 Bare parts at ES2, except for the pins of connectors. However, such pins shall not be accessible under normal operating conditions. Accessibility to be tested by a **Blunt probe**.

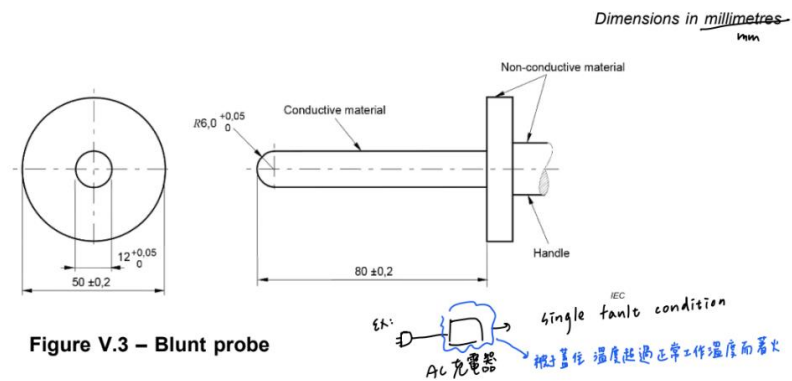


Figure V.3 – Blunt probe



Exercise : Is it ok to let ordinary persons to access 12V car battery terminals? Yes. 因為ES1

Exercise : Battery bank terminals at 96V are protected by a wire gauze with square wire mesh of 20mm x 20 mm and placed 50mm from the terminals. Is this an adequate restriction to accessibility? 是夠 阻止 觸碰 解決方法: ① square wire mesh < 12mm x 12mm ② battery 拿遠一點 > 80mm

Exercise : Battery banks at 48V are used in the Telecom Industry. Why is this voltage chosen in terms of safety? ES1, 不能剛好 60V, 會有正負誤差, 因此 48V 最常用

室外