DC Plugs and Socket-outlets
Swedish draft proposal

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2005-08-29
DC Plugs and Socket-outlets

**STANDARD SHEET III b**
2.5A / 400 V DC Two-pole socket-outlet with side earthing-contacts for power supply of AC/DC equipment.

**STANDARD SHEET IV b**
2.5A / 400 V DC Two-pole socket-outlet with side earthing-contacts for power supply of AC/DC equipment.

For other dimensions and specifications see standard sheet IV.
The sketches are not intended to govern design except as regards the dimensions shown.
Dimensions in mm.
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Dimensions in mm.
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- IEC 60 884-1 Plugs and socket-outlets for household and similar purposes + national standards
- Examples of additions and changes necessary when adding DC
  - **1. Scope**
    - Add: This standard does also apply to AC/DC and DC plugs and socket-outlets. The rated current is limited to 2,5 A for plugs and socket-outlets without interlock.
  - **6. Rating**
    - Add a new row in table 1
      | Type  | Rated voltage V DC | Rated current A DC |
      |-------|-------------------|-------------------|
      | 2 P plug | 400              | 2,5               |
      | 2 P     |                   |                   |

  - **8.1 Marking**
    - Add.
      Socket-outlets according to standard sheet III b shall be marked AC/DC
      Socket-outlets according to standard sheet III c shall be marked DC
      Plugs according to standard sheet IV b shall be marked AC/DC
      Plugs according to standard sheet IV c shall be marked DC

  - **8.2**
    - Add the symbol for direct current
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- Examples of additions and changes necessary when adding DC
  - 8.3 – 8.4
  - Add: The marking according to the addition in clause 8.1 shall be placed so that it is readable also after the plug inserted in the socket outlet.
  - 9.
  - Add relevant gauges.
  - 9.101
  - Add at the end of the requirement: standard sheet III b, III c, IV b and IV c.
  - 15. Interlocked socket-outlets
  - Socket-outlets for AC and DC might be designed for 16 A current maximum.
  - Plugs for loads for AC and DC rated for up to 2,5 A can be connected and disconnected without interlocking. Plugs for 2,5 A are rated for AC and DC without interlocking mechanical or electronic functions.
  - For loads higher than 2,5 A, the standard AC and DC plug can be used if it is equipped with a mechanical or electronic interlocking switch function with or without connection to the outlets cover. The function shall be designed in such a way that a plug cannot be inserted into or completely withdrawn from the socket-outlet while the plug-contacts can carry current, i.e. the plug-contacts shall be switched off from the load or high-ohmic during these procedures.
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  - 20. Breaking capacity
  - 21 Normal operation