The ED150 range of switches have been designed to provide a rapid means of disconnecting batteries or other power supplies in the event of serious electrical faults. Whilst the switches are primarily intended for use with battery powered vehicles they are also suitable for use with static power systems. All types are capable of safely rupturing full load battery currents in the event of an emergency.

- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The ED150 is a manually operated device with a simple over-centre spring mechanism which provides a snap action for both opening and closing of the main contacts. The ED150 is easy to install (see drilling details) and is secured with supplied M5 posidrive mounting screws.

Precautions:

When fitted with magnetic blowouts the polarity marked on the contact housing must be observed when connecting the main terminals. Ensure that the switches are installed in a position where heavy arcs emanating from the switch cannot damage or electrically jump across to adjacent parts.

The switch is to be used to rupture current in an emergency or as a no-load isolator. Do not use as a regular On-Load Switching Device.

**Application Interrupted Uninterrupted**

Thermal Current Rating (100%) 250A 350A

Intermittent Current Rating:

- 30% Duty: 275A
- 40% Duty: 235A
- 50% Duty: 210A
- 60% Duty: 195A
- 70% Duty: 180A

Overload Currents that can be Ruptured:

- ED150 1000A at 48V D.C.
- ED150B 1000A at 96V D.C.

**Maximum Recommended Contact Voltages (U_{e})**

- ED150 48V D.C.
- ED150B 96V D.C.

**Auxiliary Details**

- Auxiliary Thermal Current Rating 15A
- Auxiliary Contact Switching Capabilities (Resistive Load):
  - 15A at 24V D.C.
  - 10A at 48V D.C.
  - 5A at 96V D.C.

Cable rated suitable for application

**Connections become polarity sensitive**

The Use of Battery Disconnecting Switches in Electric Vehicles

Modern battery powered electric vehicles are inherently very reliable and safe. However, even when sophisticated electronic controllers are used it is desirable to have a means of disconnecting the battery in the event of an emergency, such as a vehicle failing to stop or an electrical short circuit.

In many countries it is mandatory to fit one or more devices to achieve an emergency disconnection of the battery.

- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice