

Dc Disconnect Switch

LS6R0400 SERIES

1500 V Dc • 400 A

REACH EAC CE IEC UL RoHS



Type CB
Dc Ungrounded



Type 4D
Dc Grounded with handle attached



Description

The Littelfuse LS6R dc series is an energy-efficient, compact disconnect switch that quickly breaks or resumes the flow of current safely to prevent shock hazards when trying to isolate circuits or repair systems.

Features/Benefits

- The patented operation system minimizes damage caused by arcs upon disconnection to increase product reliability and longevity
- Streamline design eliminates the need for external bridging links (jumpers) to lower heat dissipation for increased energy efficiency, decreased installation and maintenance time, and reduced footprint for added design flexibility
- High-level disconnection insulation provides a barrier to stop conduction when switch is in off position for added safety
- The self-cleaning blade contacts eliminate performance degradation (from increased electrical resistance over time) to ensure consistent behavior across the product's lifespan
- The internally-located "sandwich-type" 2-contact symmetrical design mitigates the electromagnetic force of repulsion to offer enhanced functionality in short-circuit conditions
- Meets UL 94 flammability requirements with self-extinguishing/non-flammable materials to prevent fires

Applications

- Solar/PV systems: combiner boxes, recombiner boxes and inverters
- Energy storage systems: disconnection of batteries, containerized batteries
- Oil & gas: dc drives
- Railway: earthing switches and battery disconnection
- UPS: switching and isolation of batteries
- Electrical vehicle chargers

Specifications

UL 98B Standards

| | |
|-----------------------------|------------------------------|
| Total Voltage Rating | 1500 V dc |
| Amperage Rating | 400 A |
| SCCR Rating | 10 kA |
| Ambient Temperature | -30 to 50 °C (-22 to 122 °F) |

IEC 60947-3 Standards

| | |
|-------------------------------------|-----------|
| Insulation Voltage Rating Ui | 1500 V dc |
| Impulse Withstand Voltage | |

| | |
|----------------------------|-----------------|
| Rating Uimp | 12 kV |
| Operational Current | |
| DC21B Rating | 400 A/1500 V dc |

Other Characteristics

| | |
|------------------------------------|--|
| Power Losses at 400 A | 10.58 watts |
| Maximum Busbar | |
| Connection Range | 2 bars x 4 mm (.16") H x 32 mm (1.26") L |
| Number of Circuits/Switches | 1 |
| Mechanical Operations | 8,000 |
| Tightening Torque | 212 lbf-in (24 N·m) |
| Material | Plastic housing Silver-plated copper terminals |
| Base Mounting | Screws |
| Flammability Rating | UL 94 V-0 |
| Approvals | UL 98B & UL 94 UL Guide WHVA UL Listed E511898 NEC Article 690 for PV systems IEC-60947-3 CE EAC |

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|--------------------------|-------------------------|
| Environmental | RoHS compliant REACH |
| Country of Origin | Spain |

Recommended Accessories

- **Panel Handle with Shaft LDSSA11**
For closed panel door access
- **Direct Handle LDSS11**
For open panel door access
- **Auxiliary Contact LD5LAU01**
Remotely indicates switch position

