# Dc Disconnect Switch

## LS6R0250 SERIES

1500 V Dc • 250 A

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** | 250 A |
| **SCCR Rating** | 10 kA |
| **Ambient Temperature** | -20 to 50 °C (-4 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** | 250 A/1500 V dc |
| **Other Characteristics** | |
| **Power Losses at 250 A** | 4.13 watts |
| **Maximum Busbar Connection Range** | 2 bars x 4 mm (.16") **H** x 30 mm (1.18") **L** |
| **Number of Circuits/Switches** | 1 |
| **Mechanical Operations** | 8,000 |
| **Tightening Torque** | 212 lbf-in (24 N•m) |
| **Material** | Plastic housing<br>Silver-plated copper terminals |
| **Base Mounting** | Screws |
| **Flammability Rating** | UL 94 V-0 |
| **Approvals** | UL 98B & UL 94<br>UL Guide WHVA<br>UL Listed E511898<br>NEC Article 690 for PV systems<br>IEC-60947-3<br>CE<br>EAC |
| **Environmental** | RoHS compliant<br>REACH |
| **Country of Origin** | Spain |

## Recommended Accessories

- **Panel Handle with Shaft LDSSA11**
  For closed panel door access
- **Direct Handle LDSSI11**
  For open panel door access
- **Auxiliary Contact LD5LAU01**
  Remotely indicates switch position


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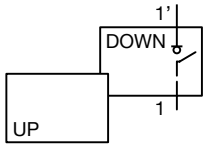
# Dc Disconnect Switch
LS6R0250 SERIES

## Part Numbering System

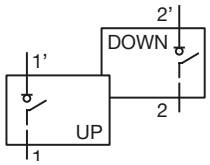
LS6R 0250 CB S 00L

- Series
- Amperage
- Configuration Type
  - CB=DC Ungrounded
  - 4D=DC Grounded
- Terminal Measurement
- UL product

## Configuration




Type 4D



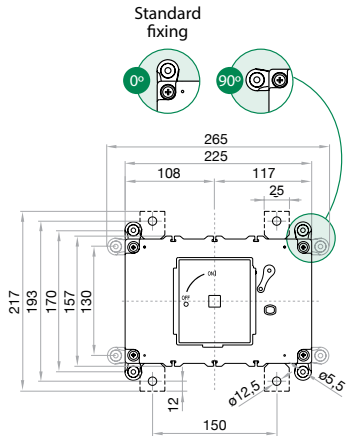

Type CB

## Ordering Information

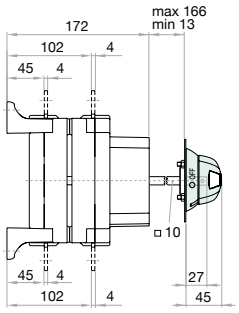
| DC DISCONNECT SWITCH | | | | | |
|---|---|---|---|---|---|
| PART NUMBER | VOLTAGE | AMPERAGE | INSTALLATION | CONFIGURATION | SINGLE UNIT WEIGHT |
| LS6R02504DS00L | 1500 V dc | 250 A | Grounded | Type 4D | 4.5 kg |
| LS6R0250CBS00L | 1500 V dc | 250 A | Ungrounded | Type CB | 4.5 kg |

## Dimensions Millimeters

### Dc Disconnect Switch

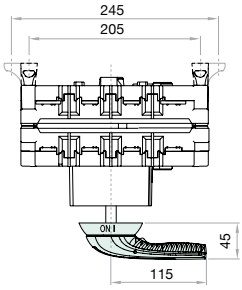



### Switch - Side View



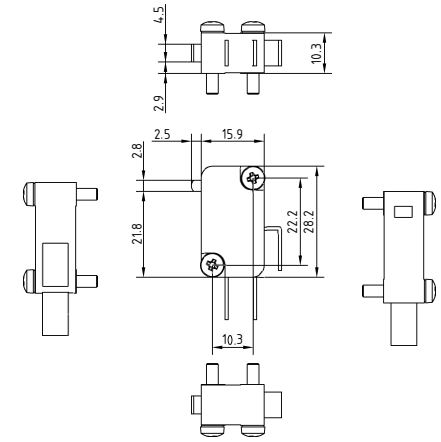

### Panel Handle with Shaft

LDSSA11



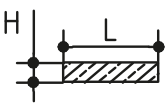

### Auxiliary Contact

LD5AU01




### Busbar

| COPPER BUSBAR H MAX (CU) | | COPPER BUSBAR L MAX (CU) | | | COPPER BUSBAR M (TERMINAL TORQUE) (+5 % \| -10 %) | |
|---|---|---|---|---|---|---|
| MM | INCH | MM | INCH | | N•M | LB.INCH |
| 4 | 5/32 | 36 | 1 3/16 | M12 | 24 | 212 |

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