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

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: 2 Pole (CB): 4.13 watts/pole
  1 Pole (4D): 4.13 watts total
- 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
  Silver-plated copper terminals
- Base Mounting: Screws
- Flammability Rating: UL 94 V-0
- Approvals: UL 98B & UL 94
  UL Guide WHVA
  UL Listed E33311
  NEC Article 690 for PV systems
  IEC-60947-3
  CE
  EAC

Environmental
- RoHS compliant
- REACH

Country of Origin
- Spain

Recommended Accessories
- Panel Handle with Shaft LDSSA11
  For closed panel door access
- Direct Handle LDSI11
  For open panel door access
- Auxiliary Contact LD5LAU01
  Remotely indicates switch position
**Dc Disconnect Switch**

**LS6R0250 1500 V DC SERIES**

### Part Numbering System

- **Series**: LS6R
- **Amperage**: 0250
- **Configuration Type**: CB
- **UL product**
- **Terminal Measurement**: S 00L

### Configuration

- **Type 4D (1 Pole)**
- **Type CB (2 Pole)**

### Ordering Information

<table>
<thead>
<tr>
<th>SERIES</th>
<th>TOTAL VOLTAGE</th>
<th>AMPERAGE</th>
<th>INSTALLATION</th>
<th>CONFIGURATION</th>
<th>POLES</th>
<th>SINGLE UNIT WEIGHT</th>
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<td>1500 V dc</td>
<td>250 A</td>
<td>Grounded</td>
<td>Type 4D</td>
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<td>4.5 kg</td>
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<td>1500 V dc</td>
<td>250 A</td>
<td>Ungrounded</td>
<td>Type CB</td>
<td>2</td>
<td>4.5 kg</td>
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</tbody>
</table>

### Dimensions Millimeters

#### Dc Disconnect Switch

![Dc Disconnect Switch Diagram](Image)

#### Switch - Side View

![Switch - Side View Diagram](Image)

#### Panel Handle with Shaft

![Panel Handle with Shaft](Image)

#### Auxiliary Contact

![Auxiliary Contact](Image)

### Busbar

<table>
<thead>
<tr>
<th>BUSBAR H MAX (CU)</th>
<th>BUSBAR L MAX (CU)</th>
<th>COPPER BAR M (TERMINAL TORQUE) (+5 %</th>
<th>-10 %)</th>
<th>N•M</th>
<th>LB. INCH</th>
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<tbody>
<tr>
<td>MM INCH</td>
<td>MM INCH</td>
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<td>N•M</td>
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