

# Dc Disconnect Switch

LS6R0400 1500 V DC SERIES

1500 V Dc • 400 A • 1 Pole  
1500 V Dc • 400 A • 2 Pole (750 V dc per pole)

REACH EAC CE IEC UL RoHS



2 Pole (Type CB)  
Dc Ungrounded



1 Pole (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

## Specifications

### UL 98B Standards

|                      |                             |
|----------------------|-----------------------------|
| Total Voltage Rating | 1500 V dc                   |
| Amperage Rating      | 400 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                    | 400 A / 1500 V dc |

### Other Characteristics

|                       |                                                                 |
|-----------------------|-----------------------------------------------------------------|
| Power Losses at 400 A | 2 Pole (CB): 10.58 watts/pole<br>1 Pole (4D): 10.58 watts total |
|-----------------------|-----------------------------------------------------------------|

### 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 |
| Screws                         |
| UL 94 V-0                      |
| UL 98B & UL 94                 |
| UL Guide WHVA                  |
| UL Listed E333311              |
| NEC Article 690 for PV systems |
| IEC-60947-3                    |
| CE                             |
| EAC                            |

### Base Mounting

### Flammability Rating

### Approvals

|           |
|-----------|
| UL 94 V-0 |
|-----------|

|                |
|----------------|
| UL 98B & UL 94 |
|----------------|

|               |
|---------------|
| UL Guide WHVA |
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| UL Listed E333311 |
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| NEC Article 690 for PV systems |
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| IEC-60947-3 |
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| CE |
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| EAC |
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| RoHS compliant |
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| REACH |
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## Configuration

Type CB (2 Pole)

# Mouser Electronics

Authorized Distributor

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[LS6R0400CBD00L](#)