

# Dc Disconnect Switch

LS6R0250 SERIES

1500 V Dc • 250 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

<b>Total Voltage Rating</b>	1500 V dc
<b>Amperage Rating</b>	250 A
<b>SCCR Rating</b>	10 kA
<b>Ambient Temperature</b>	-20 to 50 °C (-4 to 122 °F)

### IEC 60947-3 Standards

<b>Insulation Voltage Rating Ui</b>	1500 V dc
<b>Impulse Withstand Voltage</b>	

**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

Silver-plated copper terminals

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

**Environmental** RoHS compliant

REACH

**Country of Origin** Spain

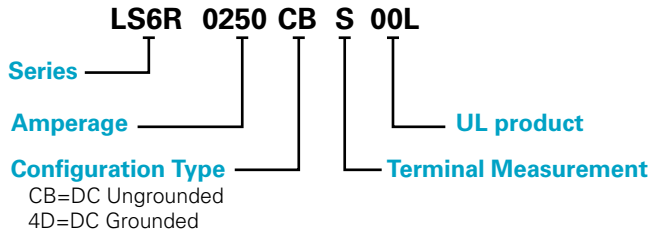
## Recommended Accessories

- **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

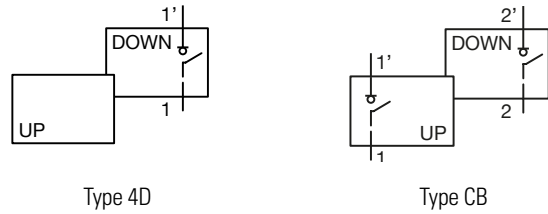
# Dc Disconnect Switch

## LS6R0250 SERIES

### Part Numbering System



### Configuration

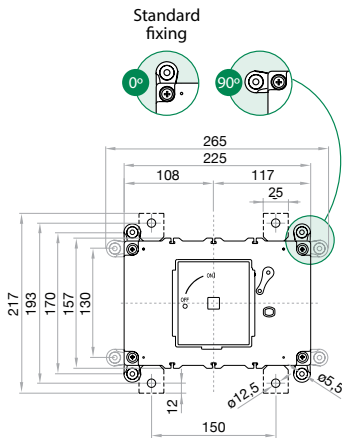


### Ordering Information

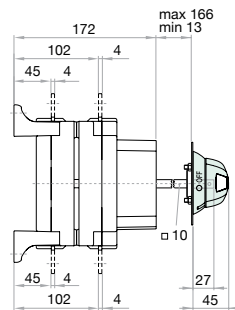
DC DISCONNECT SWITCH					
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT
LS6R02504DS00L	1500 V dc	250 A	Grounded	Type 4D	4.5 kg
LS6R0250CBS00L	1500 V dc	250 A	Ungrounded	Type CB	4.5 kg

### Dimensions Millimeters

#### Dc Disconnect Switch

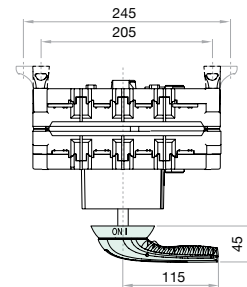


#### Switch - Side View



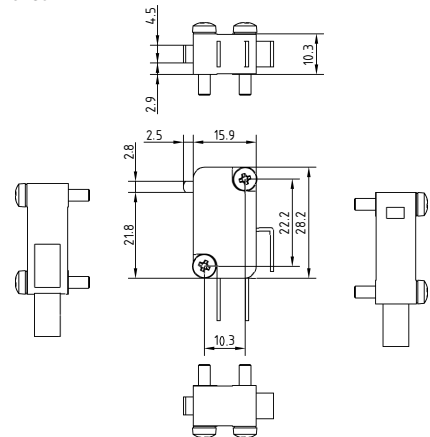
#### Panel Handle with Shaft

LDSSA11



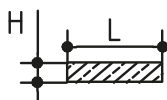
#### Auxiliary Contact

LD5AU01



#### Busbar

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



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