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)













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
- The self-cleaning blade contacts eliminate performance degradation (from increased electrical resistance over time) to ensure consistent behavior across the product's
- The internally-located "sandwich-type" 2-contact symmetrical design mitigates the electromagnetic force of repulsion to offer enhanced functionality in shortcircuit conditions
- Meets UL 94 flammability requirements with selfextinguishing/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

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

Base Mounting Screws Flammability Rating UL 94 V-0 UL 98B & UL 94 **Approvals**

UL Guide WHVA UL Listed E333311

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

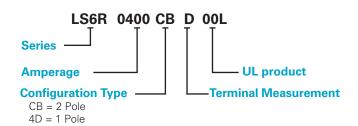
For closed panel door access

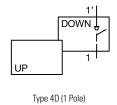
Direct Handle LDSI11 For open panel door access

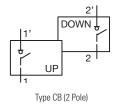
Auxiliary Contact LD5LAU01 Remotely indicates switch position

Part Numbering System

Configuration







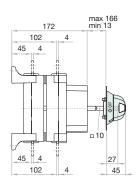
Ordering Information

DC DISCONNECT SWITCH										
SERIES	TOTAL VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	POLES	SINGLE UNIT WEIGHT				
LS6R04004DD00L	1500 V dc	400 A	Grounded	Type 4D	1	4.5 kg				
LS6R0400CBD00L	1500 V dc	400 A	Ungrounded	Type CB	2	4.5 kg				

Dimensions Millimeters

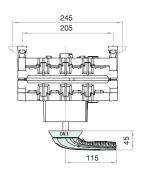
Dc Disconnect Switch

Switch - Side View



Panel Handle with Shaft

LDSSA11



Busbar

BUSBAR H MAX (CU)		BUSBAR LMAX (CU)			COPPER BAR M (TERMINAL TORQUE) (+5 % -10 %)	
MM	INCH	MM	INCH		N∙M	LB.INCH
4	5/32	32	11/4	M12	24	212



Auxiliary Contact

LD5AU01

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