1500 V Dc • 500 A







Description

The Littelfuse LS7R 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. It is a 1500 V dc disconnect for ungrounded 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 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
- Electrical vehicle chargers

Specifications

UL 98B Standards

Total Voltage Rating1500 V dcAmperage Rating500 ASCCR Rating10 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 500 A / 1500 V dc

Other Characteristics

Power Losses at 500 A 33.05 watts

Maximum Busbar

Connection Range 2 bars x 5 mm (.20") **H** x 32 mm (1.25") **L**

Number of Circuits/Switches 1

Tightening Torque 212 lbf-in (24 N•m) **Material** Plastic housing

Silver-plated copper terminals

Base MountingScrewsFlammability RatingUL 94 V-0ApprovalsUL 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 LDMAU11
 Remotely indicates switch position

Spacers LDMEL11

Increase distance between switch and mounting plate



Part Numbering System

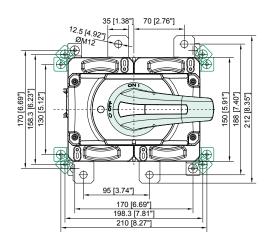


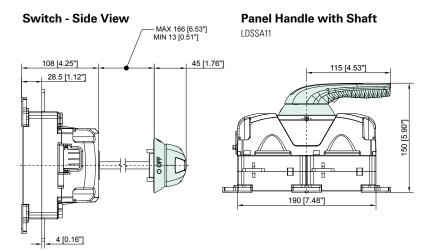
Ordering Information

DC DISCONNECT SWITCH										
PART NUMBER	VOLTAGE	AMPERAGE	INSTALLATION	CONFIGURATION	SINGLE UNIT WEIGHT					
LS7R05002PS00L	1500 V dc	500 A	Ungrounded	Type 2P	3 kg					

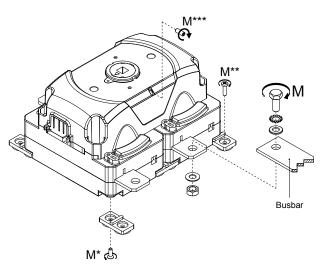
Dimensions Millimeters (Inches)

Dc Disconnect Switch





Switch - 3D Installation View



Busbar

ΩТΥ		M (COPPER BUSBAR M (TERMINAL TORQUE) (+5 % -10 %)		COPPER BUSBAR H MAX (CU)		COPPER BUSBAR L MAX (CU)	
		N	I•M	LBF•INCH	MM	INCH	MM	INCH
2	M12		24	212	5	13/64	32	11/4
М	T	3	M (+5 % -10 %)		MINIMUM BUSBAR SECTION ACCORDING TO UL 98B			
	₩		N•M	LBF•INCH				
*	T20	M4	1.2	10.6	H	1 1	L	1
**	_	M4	1.5	13.3		+ 1	//////	1
***	Allen	M5	1.5	13.3		1		4

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