

LSD-series

SURGE DIVERTER

Power DC Surge Protector



TVSS ⚡

- For 48 Vdc - 500 Vdc DC and PV system
- Easy installation for MDB and load center location
- Parallel installation with main power system
- No effect to load or main power
- All TVSS protection mode ; POS.-NEG., POS.-EARTH, NEG.-EARTH
- LED protected status indicator
- LED replaced indicator with alarm solid state contact 0.1A/350Vp
- Response time is less than 25 nsec.
- Low let-through voltage is 250 - 1400 V
- Surge capability $I_{max} = 20 \text{ kA}$ (8/20 μs) (40 kA optional)
- High MCOV is 150 - 750 Vdc
- Accordance with ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.42-2000

Applications

- Telecommunications Site
- Solar Water Pump System
- Stand-alone Solar Power System
- PV-Grid Connected System
- Battery system

LSD-series Surge Diverters provide high energy surge diversion for protection against power surge caused by external sources as lightning strikes or switching circuit at DC power supply section. LSD-series Surge Diverter is designed for mounting at point-of-entry / service entrance, main switchboard or distribution board, sub-distribution board and load center location for providing DC surge protection for battery system, stand-alone solar power system, PV grid-tie system, solar water pump system, DC power supply system, data control & acquisition equipment, telecommunications sites, etc.

MODEL	LSD150-20kA	LSD250-20kA	LSD450-20kA	LSD600-20kA	LSD750-20kA
ELECTRICAL SYSTEM	POS.(+), NEG.(−), EARTH (DC and PV system)				
NOMINAL VOLTAGE	48 / 72 V	120 V	240 V	400 V	500 V
MAXIMUM VOLTAGE	150 V	250 V	450 V	600 V	750 V
APPLICATION RANGE	40 -150 V	100 - 250 V	200 - 450 V	400 - 600 V	500 - 750 V
LET THROUGH VOLTAGE	250 V	500 V	750 V	1400 V	1400 V
SURGE ENERGY DISSIPATION	1,460 joules	2,360 joules	4,700 joules	7,700 joules	7,700 joules
SURGE CAPABILITY (I_{max})(8/20 μs)	20 kA (40 kA is optional)				
TVSS PROTECTION MODE	POS.-NEG., POS.-EARTH, NEG.-EARTH				
LOCATION CATEGORY	ANSI/IEEE C62.41-1991: CAT A1, A2, A3, B1, B2, B3, C1, C2				
AMBIENT TEMPERATURE	- 40 to 60 °C				
DIMENSIONS (W x H x D) (mm.)	38 x 215 x 82				44 x 251 x 106

Continuous product development is our commitment. In that manner, the above specifications may be changed without prior notice.

LEN.BRO.SUR.150 Rev.3.00/2011