

## LSD-series

## SURGE DIVERTER

## Power DC Surge Protector



TVSS ⚡

- For 48 Vdc - 850 Vdc DC and PV system
- Thermally protected MOVs (TMOV)
- 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
- Solid state alarm 0.1 A / 350 Vp contact
- Response time is less than 25 nsec.
- Low let-through voltage is 400 - 2,400 V
- Surge capability  $I_{max} = 20 \text{ kA}$  (8/20  $\mu\text{s}$ ) (25kA, 40 kA optional)
- High MCOV is 170 - 1,000 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	LSD850-20kA
ELECTRICAL SYSTEM	POS.(+), NEG(-), EARTH (DC and PV system)					
NOMINAL VOLTAGE	48 / 72 V	120 V	240 V	400 V	500 V	850 V
MAXIMUM VOLTAGE	170 V	250 V	460 V	615 V	770 V	1,000 V
APPLICATION RANGE	40 - 150 V	100 - 250 V	200 - 450 V	400 - 600 V	500 - 750 V	500 - 900 V
LET THROUGH VOLTAGE	400 V	600 V	1,200 V	1,500 V	1,800 V	2,400 V
SURGE ENERGY DISSIPATION	756 joules	1,125 joules	2,160 joules	2,475 joules	5,040 joules	6,320 joules
SURGE CAPABILITY ( $I_{max}$ )(8/20 $\mu\text{s}$ )	20 kA (25 kA, 40 kA are 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.

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