

LSD-series

SURGE DIVERTER

Power DC Surge Protector



- 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 0.1A / 350Vp contact
- Response time is less than 25 nsec.
- Low let-through voltage is 400 - 2,400V
- Surge capability I_{max} = 20 kA (8/20μs) (25 kA, 40 kA are optional)
- High MCOV is 170 - 1,000 Vdc
- Accordance with ANSI/IEEE C62.41, ANSI/IEEE C62.42 and IEC 61643-1 standards

Applications

- Telecommunication sites
- Solar water pump system
- Stand-alone solar power system
- PV-Grid connected power system
- Battery system
- DC power supply system

TVSS ⚡



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 input	48 / 72 Vdc	120 Vdc	240 Vdc	400 Vdc	500 Vdc	850 Vdc
Maximum voltage (Voc)	170 Vdc	250 Vdc	450 Vdc	615 Vdc	770 Vdc	1,000 Vdc
Application range (MCOV)	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})	20 kA (25 kA, 40 kA are optional)					
TVSS protection mode	All mode; Pos.-Neg, Pos.-Earth, Neg.-Earth					
Location category	ANSI/IEEE C62.41 CAT.A1, A2, A3, B1, B2, B3, C1, C2					
Response time	Less than 25 ns					
Ambient temperature	- 40°C to 60°C					
Dimensions (W x H x D)	38 x 215 x 82 mm.				44 x 251 x 106 mm.	
Weight (approx. in kg)	0.7 kg				1.0 kg	