

# DC LINE DINRAIL DIVERTER

DDD series is designed for any DC power systems such as photovoltaic (PV) power or other DC power supply systems used in industrial and commercial environments located in low to medium exposure areas

- ◆ All mode protection
- ◆ Highest safety standard design
- ◆ High surge handling capability up to 120KA
- ◆ LED status indication
- ◆ Remote monitoring
- ◆ Redundant protection segments(80KA or above)
- ◆ Remote Monitoring Panel
- ◆ Fits into most switching box



**All mode protection**-LEPS DDD series surge diverters provides state-of-the-art protection for any DC power supply systems by rapidly diverts excess transient surges to ground that exist between positive to ground, negative to ground, away from your sensitive equipment.

**Highest safety standard design** -It has been engineered to the industry's safest criteria for full compliance with ULI1449 Edition2 by using a specially designed aluminum enclosure. Also with its patented thermal and short circuit fusing included, it ensures safe isolation during sustained abnormal over-voltage events and component failure.

**High surge handling capability up to 120KA per line**-120KA per line surge handling capability makes DDD series protectors an economical choice for any DC power protection.

**LED status indication**-All models have LED indicators per line to monitor the integrity of protection.

**Remote monitoring**-Models with

suffix A features voltage free contacts with normal open/normal close contacts which change state to indicate a fault. It can be interfacing with intelligent building management systems for remote indication.

### Redundant protection segment -

80KA or above models employs two to three independent fused and thermal overload protection elements to provide back-up protection for continued equipment survival despite a fault condition. This means you are never left unprotected.

### Remote Monitoring Panel (RMP) -

Apart from the built-in LED status indication and voltage free change over alarm, an optional Remote Monitoring Panel interface can be chosen which can be connected to RMP to offer both visual and audible alarm at remote location.

**Fits into most switching box**-It's compact design match the profile of most common MCBs at used which makes it ideal for inclusion in distribution or switchboard by mounting on the DIN43880 DIN rail.

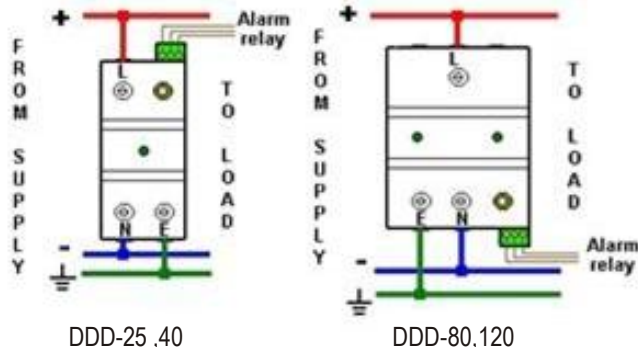




# SPECIFICATIONS AND DRAWINGS

## Installation

The diverters are connected in parallel with the protected system (load) as illustrated below:

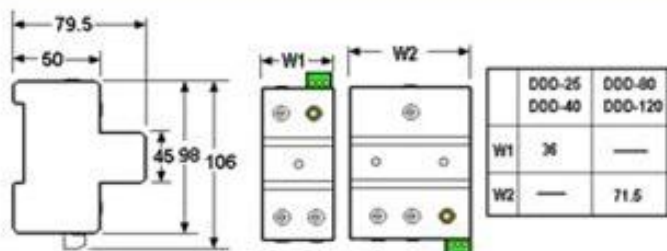


DDD-25,40

DDD-80,120

For detail installation requirements, pls refer to relevant user manual.

## Dimensions



## Ordering Information

MODEL	MAX. WORKING VOLTAGE (DC)	CLAMPING VOLTAGE (DC)	DESCRIPTION
DDD -25I	110V	250V	DC power system
DDD -25J	22 0V	455V	DIN rail
DDD -25K	33 0V	710V	diverter,
DDD-2 5L	500V	1025V	25KA
DDD -25M	6 00V	1240V	
DDD -25H	8 00V	1650V	
DDD-2 5U	1000V	1980V	
DDD -40I	110V	250V	DC power system
DDD -40J	22 0V	455V	DIN rail
DDD -40K	33 0V	710V	diverter,
DDD -40L	500V	1025V	40KA
DDD -40M	6 00V	1240V	
DDD -40H	8 00V	1650V	
DDD -4 0U	1000V	1980V	
DDD -80I	110V	250V	DC power system
DDD -80J	22 0V	455V	DIN rail
DDD -80K	33 0V	710V	Diverter,
DDD -8 0L	500V	1025V	80KA
DDD -80M	6 00V	1240V	
DDD -80H	8 00V	1650V	
DDD -8 0U	1000V	1980V	
DDD -80I	110V	250V	DC power system
DDD -80J	22 0V	455V	DIN rail
DDD -80K	33 0V	710V	Diverter,
DDD -12 0L	500V	1025V	120KA
DDD -120M	6 00V	1240V	
DDD -120H	8 00V	1650V	
DDD -12 0U	1000V	1980V	

### Notes:

(1) The above models are without volt free dry contact, for models with volt free dry contact, please add "A" after the L, M, H and U. e.g. DDD-80MA

## General Specifications

### Max. Surge rating per line:

DDD-25x	25KA(8/20µs)(50KA unit total)
DDD-40x	40KA(8/20µs)(80KA unit total)
DDD-80x	80KA(8/20µs)(160KA unit total)
DDD-120x	120KA(8/20µs)(240KA unit total)

Earth leakage current: 10µA

Protection mode: Transverse and common

Response time: <5ns

Standards compliance: BS6651-1999 cat.A.B.C  
AS1768-2003 cat.A.B.C  
IEEE C62.41 cat.A.B.C  
CP33-1999 cat.A.B.C  
IEC 1000-4-5 1995  
UL1449 second edition

Alarm isolation: 4KV

Status indicator: LED (Green=OK)

Optional remote alarm: Siren sound, OK and FAIL LED

Alarm(volt free contact): N/O ,N/C(2A@ 250Vac)

Alarm conductor size: 2.5mm<sup>2</sup>

Conductor size: 16mm<sup>2</sup>

Operating temperature: -40-85°C

Humidity: 0-95%(R.H.)

Mounting: 35mm DIN rail (DIN 43880) or Panel screw mount

Enclosure material: Anodized aluminum

### Weight:

DDD-25x	230g
DDD-40x	260g
DDD-80x	320g
DDD-120x	345g