PHOTOVOLTAIC SYSTEM MODULAR DIVERTER



PMD 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 high exposure areas

- Plug-in protection modules for easy maintenance
- ◆ Fault proof circuit design
- High surge handling capability up to 120KA
- Status indication
- **◆** Remote monitoring
- Redundant protection segments(80KA or above)
- Full range of voltage to choose
- ♦ Fits into most switching box

Plug-in protection modules for easy maintenance - LEPS PMD series surge diverters uses state-of-the-art plug-in protection modules. This makes the maintenance work much more easy in case there is the need to replace the protection modules.

Fault proof circuit design - It has been engineered to the industry's safest criteria by using fault proof circuit design which not only avoids damage of the diverter due to insulation faults in the PV generator but also prevents damages caused by installation errors.

High surge handling capability up to 120KA per line - PMD series has surge rating from 20KA to 120KA per line which makes it an economical and ideal choice for any DC power protection at low to high exposure areas.

Status indication - All models have mechanical 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 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.

Full range of voltage to choose-

PMD series has plenty of voltage levels to chose. Sart from 110V to as high as 1000V dc models, users can find the right model for their protection requirements.

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.

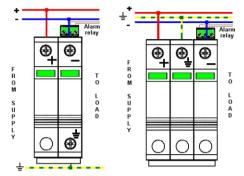




SPECIFICATIONS AND DRAWINGS

Installation

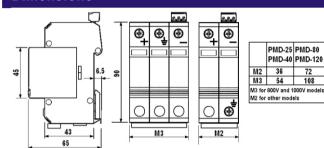
The diverters are connected in parallel with the protected system(load) as illustrated below:



For 110, 220,330,500 & 600V models For 800V & 1000V models

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

Dimensions



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Ordering	string intormation				
MODEL	MAX. WORKING VOLTAGE (DC)	CLAMPING VOLTAGE (DC)	DESCRIPTION		
PMD-20I PMD-20J PMD-20K PMD-20L PMD-20M PMD-20H PMD-20U	110V 220V 330V 500V 600V 800V 1000V	250 455V 710V 1025V 1240V 1650V 1980V	PV system Modular Diverter, 20KA		
PMD-40I PMD-40J PMD-40K PMD-40L PMD-40M PMD-40H PMD-40U	110V 220V 330V 500V 600V 800V 1000V	250V 455V 710V 1025V 1240V 1650V 1980V	PV system Modular Diverter, 40KA		
PMD-80I PMD-80J PMD-80K PMD-80L PMD-80M PMD-80H PMD-80U	110V 220V 330V 500V 600V 800V 1000V	250V 455V 710V 1025V 1240V 1650V 1980V	PV system Modular Diverter, 80KA		
PMD-120I PMD-120J PMD-120K PMD-120L PMD-120M PMD-120H PMD-120U	110V 220V 330V 500V 600V 800V 1000V	250V 455V 710V 1025V 1240V 1650V 1980V	PV system Modular Diverter, 120KA		

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. PMD-80MA

LEPS Technologies Ltd. http://www.lepstech.com Email: sales@lepstech.com

General Specifications

Max. Surge rating per line:

 PMD-20x
 20KA(8/20µs), 7.5KA(10/350µs)

 PMD-40x
 40KA(8/20µs), 15KA(10/350µs)

 PMD-80x
 80KA(8/20µs), 30KA(10/350µs)

 PMD-120x
 120KA(8/20µs), 45KA(10/350µs)

Max.operating voltage: See ordering information

Protection level: See ordering information

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 IEC 60364-7-712 IEC 61643-1 1998 UL1449 second edition

SPD Category(IEC/EN/VDE): Class II/Type 2/C---PMD-20, PMD-40

Class I+II/Type 1+2/B+C---PMD-80, PMD-120

Alarm isolation: 4KV

Status indicator: Mechanical Indicator (Green=OK.

Red=Fault)

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

Alarm conductor size: 2.5mm²

Conductor size: 35mm²

Operating temperature: -40-85°C

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

Mounting: 35mm DIN rail (DIN 43880)

Enclosure material: Thermal Plastic UL94-V0

Weight:

Local Distributor:

 PMD-20x--3 modules (M3)
 370g

 PMD-20x--2 modules (M2)
 250g

 PMD-40x--3 modules (M3)
 410g

 PMD-40x--2 modules (M2)
 275g

 PMD-80x--3 modules (M3)
 540g

 PMD-80x--2 modules (M2)
 360g

 PMD-120x--3 modules (M3)
 870g

 PMD-120x--2 modules (M2)
 580g

