



POWERHOUSE DISTRIBUTIONS

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PLC Line Conditioner

DESCRIPTION:

This range of miniature line transient conditioners affords excellent protection to low voltage conductor pairs. The unit is available either in a Din Rail mount format or as a low profile unit. This low cost, high performance unit is ideally suited for the protection of most two wire systems.

General information regarding the standard range of PLC Line Conditioners is listed below. For further technical details and application data, please refer to the part numbers table below.

RANGE:

DPLC/SR/XX (Standard) and DPLC/SRF/XX (Fused)

XX = voltage required

This is the most widely used device in the PLC Conditioner range. The DPLC/SR/XX offers excellent common and differential mode suppression characteristics. It is designed for use with semi-floating, low to medium frequency circuits (up to 200kHz) which carry currents up to 450mA at a range of voltages from 5 to 48 volts DC (3 to 32 volts AC rms 50Hz). Typical applications for this device would be security systems, 4~20mA current loops and other low voltage instrumentation and control circuitry.

DPLC/SI/XX (Standard) and DPLC/SIH/XX (Heavy Duty)

XX = voltage required

This unit has similar suppression characteristics to the DPLC/SR, but is designed for use with semi-floating DC or low frequency circuits (up to 10kHz). It has a lower DC series impedance and can handle steady state currents up to 1 amp. A typical application for this range of devices would be for the protection of DC power supplies.



Models and Specifications	Nominal Voltage		Max. Operating Current	Series Resistance/ Inductance	Clamping Level @ 10A (10/100us)		Response Time	Max Frequency	Surge Current is Max. (8/20us)
	DC	AC rms			Line/Earth	Line/Line			
DPLC/SR/XX DPLC/SRF/XX	5	3	450mA	10Ω	7.5	7.5	<5ns	200kHz	10kA
	12	8			13.0	13.0			
	24	15			25.5	25.5			
	36	25			38.0	38.0			
	48	32			54.0	54.0			
DPLC/SI/XX DPLC/SIH/XX	5	3	1A (Standard) 15A (Heavy Duty)	<0.1Ω 25uH both modes	7.5	7.5	<5ns	10kHz	10kA
	12	8			13.0	13.0			
	24	15			25.5	25.5			
	36	25			38.0	38.0			
	48	32			54.0	54.0			