

# Powervar Next Generation NR-Series

## Communication Line Protection

Next Generation NR-Series communication line protectors with patented Frequency Selective Transient Voltage™ (FSTV) technology, prevent high frequency fast rise time transients from entering your system, yet allow lower frequency ring voltages and other desired signals to pass through unobstructed.

**Applications:** Use with standard analog and digital telephone lines, POTS, T1, T2, HDSL1, HDSL2, ADSL, SDSL, ISDN, and VDSL.

**Installation:** Protection modules direct connect to standard RJ type connectors. Base units to fit multiple protection modules.



Impulse (Limiting Voltage) Performance: Impulse Input @ 10/1000 uS, 1.5 kV, 100 A Let Through Voltage - Line to Earth (typical/max.) Let Through Voltage - Line to Line (typical/max.)	60 V / 100 V 60 V / 100 V
DC Breakdown (Limiting) Voltage Range: 0-1 kV @ 100 V/S Line to Earth Line to Line	270 - 350 V 270 - 350 V
Module Loop Resistance @ 25°C (Each Leg) in Ω	0.3 Ω min, 0.5 Ω max
Holding Current	≥260 mA
Response Time	<1ns
Insulation Resistance @ 50 VDC	>100 MΩ
Capacitance Line to Earth @ 50 VDC, 1 VAC, 10 kHz – 1 MHz A or B in Reference to Earth A to B	<40pf <40pf
On-State Voltage @ 1 A	<5 V
Overcurrent Protection Non-resetting (Time Delay Fuse)	750 mA
Test Points	No
Operating Temperature	-40°C to 65°C
FCC Pt 68 Registration	Yes
Classification	Primary UL Secondary UL, cUL

### Protector modules available to fit standard RJ type connectors as follows:

Part Number	# of 2-wire Protection Circuits	RJ (Reference Jack) USOC number	Circuit Pairs Protected	Notes
<b>NR-27-14</b>	2	RJ 14 (6 position Jack)	3,4; 2,5	Also RJ11 compatible
<b>NR-27-48C</b>	2	RJ48C (6 position Jack)	1,2; 4,5	
<b>NR-27-48S</b>	2	RJ48S (6 position Jack)	1,2; 7,8	

### Base units to fit multiple protection modules as follows:

Part Number	# of Protection Modules	Dimensions H x W x D	Mounting
<b>RM-16</b>	16	1.72" x 17.18" x 4.15"	19" Rack 1U / Surface
<b>RM-10</b>	10	1.72" x 10.95" x 4.15"	Surface
<b>RM-5</b>	5	1.72" x 5.95" x 4.15"	Surface