

# PSITampa XNL Family

## 7-Mode Hardwired Primary AC Surge Protection Device



▶ The Full Featured XNL Family is a high performance surge protector designed for critical panel locations. The SPD incorporates high-energy MOVs with the best performing AC filter on the market to provide protection against transients originating from induced lightning strikes, utility switching and facility power noise.

Real-time diagnostics include LED fault indicators for each phase, as well as an optional alarm that includes red LED, dual Form C dry contacts for remote indication and an audible alarm, so you always know the XNL Protector is at full capacity.

Housed in a rugged NEMA 12/4X enclosure, these devices are suitable for harsh indoor or outdoor applications. The XNL Family is available for all voltages and configurations up to 480Vac.

**EXAMPLE: XNL-160-120/208-3GY**  
Wall mounted protector at 160kA/mode

### FEATURES:

Surge Rating (kA) by Mode:	050, 080, 100, 125, 160, 200, 300
Surge Rating (kA) by Phase:	100, 160, 200, 250, 320, 400, 600
Enclosure Type:	Painted Steel NEMA 12/4X – Standard no option code Stainless Steel - SS

Optional Alarms	Alarm LED, Remote Relay & Audible	– A
Optional Filter	-45 dB EMI / Noise Filter	– F
Optional Counter(s)	-55 dB Advanced EMI / Noise Filter	– FA
Optional Fuseable Fuse	Surge Counter(s) – C1 (resettable), C2 (Dual-fixed and resettable)	
Optional Mounting	Built-in 600V 30Amp fuse – FSE	
	Top Feed – T	

### ▶ AC PANEL PROTECTION

- Available in 050, 080, 100, 160, 200, 300 kA per modes
- All modes of protection
- 200 kAIC Fault Current Rating
- Advanced EMI/RFI Noise Filtering (-45dB) 3kHz - 1MHz
- 15-Year Product Warranty
- 3rd Party Tested - 15,000 (C3 20 kV/10 kA)
- Optional 30amp fuse allows direct connect to power bus

### ▶ CHARACTERISTICS

Surge Handling (Imax)	Up to 300 kA/mode 600kA/phase
All Mode Protection (10 modes)	L-N, L-G, N-G, L-L
Response Time	<5 nanoseconds MOV
Technology	
Green LED Indicators	Yes
EMI/RFI Noise Rejection (option)	-45dB and -55dB (see chart)
Surge Counter (s) (Option)	8-digit resettable transient counter
Optional Alarms	
Dual Red LED	Yes
Remote Signalling	Form C dry contacts – NC & NO
Audible	With Shut-off Switch

### ▶ STANDARDS & GUIDELINES

Listed by ETL for UL 1449 3rd edition	USA
ANSI/IEEE C62.41	USA
Listed by ETL for UL 1283 Power Filters	USA
3rd Party to IEC61643-11 CE Mark International	

### ▶ RECOMMENDED LOCATION

- Type 1 & Type 2 Locations
- Cell Sites, Well Pumps / Cat C
- Distribution Equipment / Cat B
- Branch Panels / Cat B
- Point of Use / Cat A, B, C
- Residential / Cat C
- Service Entrance / Cat C
- Distribution Panels / Cat C & B

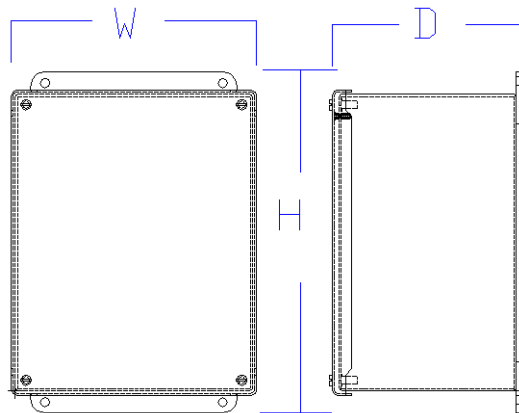
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## 7-Mode Hardwired Primary AC Surge Protection Device

Surge Voltage Rating (6 kV / 3000 A Combination Waveform) - UL1449 3rd edition						
Model No.	System Voltage	MCOV	L-N	L-G	N-G	L-L
XNL-160-120-1G	120 VAC	150	700	700	700	1200
XNL-160-240-1G	240 VAC	320	1000	1000	1000	2000
XNL-160-120/240-2G	120/240 VAC	150	700	700	700	1200
XNL-160-120/208-3GY	120/208 VAC	150	700	700	700	1200
XNL-160-220/380-3GY	220/380 VAC	320	1000	1000	1000	2000
XNL-160-277/480-3GY	277/480 VAC	320	1000	1000	1000	2000
XNL-160-120/240-3GH	120/240 VAC High Leg	150/320	700/1000	700/1000	700	1200
XNL-160-240-3DG	240VAC	320	-	1000	-	2000
XNL-160-380-3DG	380 VAC	625	-	1600	-	3200
XNL-160-480-3DG	480 VAC	625	-	1600	-	3200

7 Mode XNL-160 Model Numbers		
Model No.	System Voltage	Service Configuration
XNL-160-120-1G	120 VAC	1 PHASE, 2 WIRE, W/GROUND
XNL-160-240-1G	240 VAC	1 PHASE, 2 WIRE, W/GROUND
XNL-160-120/240-2G	120/240 VAC	1 PHASE, 3 WIRE SPLIT PHASE, W/GROUND
XNL-160-120/208-3GY	120/208 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNL-160-220/380-3GY	220/380 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNL-160-277/480-3GY	277/480 VAC	3 PHASE, 4 WIRE WYE, W/GROUND
XNL-160-120/240-3GH	120/240 VAC B PHASE IS 208V	3 PHASE, HIGH-LEG DELTA, W/GROUND
XNL-160-240-3DG	240VAC	3 PHASE, 3 WIRE DELTA, W/GROUND
XNL-160-380-3DG	380 VAC	3 PHASE, 3 WIRE DELTA, W/GROUND
XNL-160-480-3DG	480 VAC	3 PHASE, 3 WIRE DELTA, W/GROUND

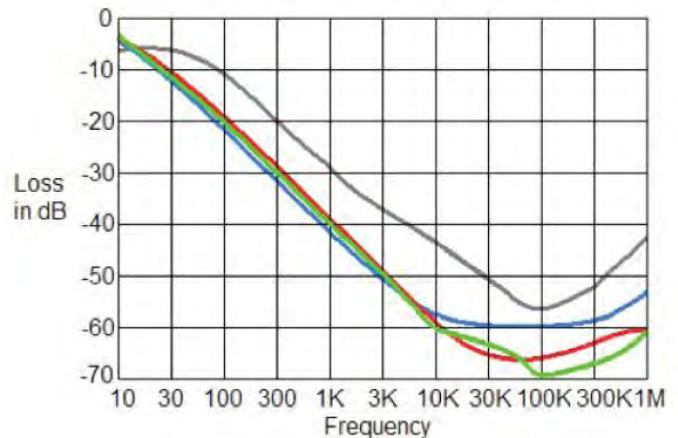
▶ Power Quality is more important today than ever before and that means not just any surge protector can be relied on to protect your sensitive equipment. The XNL Family of surge protectors is the perfect design to protect your sensitive electrical and electronic environments.



## TECHNICAL INFORMATION

### ▶ ELECTRICAL SPECIFICATIONS

Connection Method	Parallel
Discrete Protection Modes (7)	L-N, L-G, N-G
Protection Modes (10 Modes)	L-N, L-G, L-L, N-G
Pre-Wired	30" Stranded #10 AWG
Status Indicators	Green LED
Optional EMI Filter	-45 dB Noise Reduction
Optional Advanced EMI Filter	-55 dB Noise Reduction
Optional Alarm Relay Contacts	Form C NC & NO
Optional Red LED	Indicates Red when unit is in alarm
Optional Audible Alarm with Silence Switch	Piezo Buzzer



Red & Green lines represent the XNL Advanced Filter Option when compared to leading filter manufacturers.

### ▶ MECHANICAL SPECIFICATIONS

Weight	15 lbs
Standard Enclosure	Painted Steel NEMA 12 / 4X
Operating Temp	-40C to +65C
Non-condensing Humidity	5% to 95%
Bottom Fed is Standard – Top Fed is Option Code – T	
100% Sanded for Increased Safety	

SHIPPING SPECS: 34-38 lbs Standard Box 13" x 11" x 9"

### ▶ DIMENSIONAL SPECIFICATIONS

Dim	XNL – with Special Options*		Dim	XNL – 160	
H3	15.50	(393.7)	H3	10.00	(254)
W1	12.00	(304.8)	W1	8.00	(203.2)
D	6.20	(157.5)	D	6.00	(154.2)

\*With Advanced Filter Option  
ALL MEASUREMENTS IN INCHES (MM)