

# Minuteman® EnSpire<sup>™</sup> Standby UPS Series Uninterruptible Power Supply

EnSpire EN600 - 600VA/300W Standby UPS

The Minuteman® EnSpire $^{TM}$  Series UPS is a low-cost high performance UPS line that provides the features needed to protect your valuable equipment.

The EN400 and EN600 units each have six outlets, three provide battery support along with spike and surge protection and three with spike and surge protection only. The EN750 and EN900 have four each of the outlets described above for total protection of up to eight connected devices. In addition, all units have outlets which are specifically spaced to support transformer blocks.

The EnSpire UPS has a small footprint and is uniquely designed with outlets on the top for placement on or under a desk or table and all models can be wall mounted.

For over 25 years, Para Systems, Inc. has provided quality power products and excellent personalized service with direct human response to all service and support calls. EnSpire products pass extensive quality testing before being shipped to our end users.

## **Applications**

- Small capacity equipment loads
- Desktop/laptop workstations
- Small phone systems
- VolP handsets
- Home entertainment/theater systems
- Security systems (cameras, DVRs, access control devices
- Low-power network devices

EN400 - 400VA/200W | EN750 - 750VA/400W EN600 - 600VA/300W | EN900 - 900VA/500W

> EnSpire EN900 - 900VA/500W Standby UPS



### **EnSpire Features**

- Minuteman SentryPlus Software SentryPlus auto-shutdown and monitoring software is included with every unit. No special downloads or coupons are required.
- USB Communications EnSpire UPS USB connections are automatically recognized by Microsoft Windows® software. No special USB drivers are required. The EnSpire Series automatically recognizes USB connections with its HID-compliant USB communications.
- Telephone/Fax/Modem Line Protection The EnSpire UPS provides a low-cost means of protecting telephone/fax/modem lines.
- RoHS Compliant All EnSpire products are manufactured using non-hazardous\* materials making them safer for the environment.
- Warranty The UPS is covered by a threeyear parts and labor warranty and \$50,000 Minuteman Platinum Protection Plan® (U.S.A. and Canada only). The battery is covered by a two-year warranty.

#### Additional features on EN750/EN900 models:

- Coax Cable Protection Surge and spike protection for a coax cable line.
- Backlit LCD Display LCD display that shows UPS information including estimated runtime, battery status and more.

<sup>\*</sup> Excludes batteries

# Minuteman® EnSpire™ Series Standby UPS Specifications

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	System Spe	cifications					
Model Number	EN400	EN600	EN750	EN900			
Maximum Power Capacity	400VA / 200W	600VA / 300W	750VA / 400W	900VA / 500W			
Topology	Standby UPS						
	Inp	out					
Nominal Frequency		50 or 60Hz, ±5Hz, autosensing					
Voltage Range		100 - 140VAC					
Low Voltage Transfer Point	96V	96V (± 3%) resets to utility power at 101V (± 3%) or higher					
High Voltage Transfer Point	146\	146V (± 3%) resets to utility power at 140V (± 3%) or lower					
Surge Energy Rating		320 J					
Input Protection		Resettable	circuit breaker				
	Output Non-Ba	tery Operation					
Voltage Range		120VAC:	100 - 140VAC				
Frequency Range		60Hz: 55 - 65H:	z or 50Hz: 45 - 55Hz				
	Output Batte	ry Operation					
Waveform Type		Simulated sine wave					
Nominal Voltage		12	20VAC				
Voltage Regulation	Nominal ±5% (until Lo	Nominal ±5% (until Low Battery Warning) Nominal +2%/-9% (until Low Battery Warning)					
Frequency		50/60Hz, ±0.5Hz (unle	ess synchronized to utility)	)			
Transfer Time		6-8 ms Typical					
Overload Capacity		105% for 10-seconds, 115% 105% for 10-seconds, 120% Shutdown Immediately Shutdown Immediately					
Protection	Over-C	Over-Current, Short-Circuit Protected and Latching Shutdown					
	Phys	ical					
Size - Net L x W x H	11.97 x 4.84 x 3.35 in	(304 x 123 x 85 mm)	12.40 x 7.20 x 3.30 in	(314 x 183 x 83 mm)			
Weight - Net	6.44 lb (2.92 kg)	7.05 lb (3.20 kg)	9.40 lb (4.30 kg)	9.70 lb (4.40 kg)			
Size - Shipping L x W x H	15.00 x 8.20 x 5.43 in (	(380 x 208 x 138 mm)	14.40 x 10.20 x 5.60 in	(367 x 260 x 143 mm)			
Weight - Shipping	7.30 lb (3.30 kg)	8.00 lb (3.60 kg)	10.60 lb (4.80 kg)	11.02 lb (5.00 kg)			
	Regulatory (	Compliance					
Safety Approvals, EMC	UL1778, cUL (CSA 22.2 no. 107.1), FCC Class B CTUVus (Conforms to UL1778, CSA 22.2 standards), FCC Class B						

### ENSPIRE EN400/EN600 TOP VIEW

Power Technologies
From Para Systems, Inc.

### ENSPIRE EN750/EN900 TOP VIEW



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www.minutemanups.com • www.sizemyups.com • www.sizemypdu.com • www.comparemyups.com



## **Enspire Series**

350-900VA Standby, Wall-Mountable UPS

The Minuteman Enspire Series UPS is a low-cost, high performance UPS line that provides the features needed to protect your valuable equipment. The EN350 and EN550 units each have eight outlets, four provide battery support along with spike and surge protection and four with spike and surge protection only.

The EN750LCD and EN900LCD each have five of the outlets described above for total protection of up to ten connected devices. In addition, all units have outlets which are specifically spaced to support transformer blocks.



### Key Product Line Features



LCD Status Display For 750 and 900 models



SentryHD Software Compatible Monitor & manage (except 350 model)



Wall-Mountable Units feature wall-mount holes



3-yr Electronics Warranty 2-yr non-prorated battery

**Applications** 



**Communications** Workstations, Small Phone Systems



Security Midsize DVR, Acc Ctrl, Intrusion



IT/Network

Capacity:





Trouble-free Setup & Monitoring LCD Display & Easy-access Battery

LCD Control Panel (for 750VA and 900VA models)

Monitor your power with Enspire LCD's control panel.

- 1 Unit Status Indicator
- 4 Display Scroll Button
- 2 Load and Battery Meters
- 5 Alarm Silence Button
- 3 Numeric Display
- 6 On/Off Button





### **Tool-less Battery Panel**

Setup and maintenance are a breeze with Enspire LCD's tool-less battery panel and large, easy-grip battery connector. Simply slide the panel out to access the battery for initial connection or battery maintenance



- 1 Battery and Surge Receptacles (4 / 5)
- 2 Surge-only Receptacles (4 / 5)
- 3 Network/Phone Surge Protection
- 4 USB Comm. Port (550/750/900)
- 5 Coax Surge
- 6 Input Power Cord 7 Input Breaker

### **Key Features**

- Economical Standby Protection Hardware Cost-effective surge and backup protection for small loads
- Versatile Connection Options 8 (350 and 550) or 10 (750 and 900) outlets to ensure a connection for all of your devices
- · Compact, Wall-Mountable Case
- Tool-less, Hot-Swappable Battery Replacement
- USB Communications (HID Compliant) Enspire UPS USB connections are automatically recognized by Microsoft Windows (550/750/900 models)
- Single Line Phone / Fax / Modem Protection The Enspire UPS provides a low cost means of protecting telephone/fax/modem lines
- **Independent Battery Bypass** Provides surge and spike protection, even when batteries are weak or dead

#### Features on 750VA and 900VA Models:

- Easy to Read LCD Display Real-time updates on system and power status, estimated runtime remaining based on attached load
- · Green Mode Lower power consumption mode during off-time
- **Coax Protection** Protect coaxial cable for AV equipment from damaging spikes
- **Industry Leading Product Protection** Standard 3-year parts and labor warranty with 2-year non-prorated battery coverage; \$50,000 Platinum Protection Plan (US and Canada)
- ECO Mode on EN900LCD



# **Enspire Series Specifications & Features**

EN350 / EN550 / EN750LCD / EN900LCD

	Madel Number	ENISE	ENES	EN7FOL CD	ENIOSOL OR		
	Model Number	EN350	EN550	EN750LCD	EN900LCD		
General	Apparent Output Power	350VA	550VA	750VA	900VA		
<u>a</u>	Active Output Power	200 Watts	300 Watts	450 Watts	500 Watts		
	Power Factor	0.571	0.545	0.6	0.556		
	Topology	Standby UPS					
	Type	Low-Profile Office Format					
	Agency Approvals	cTUVus (conforms to UL1778 5th Edition, CSA 22.2 no 107.314 / R: 2014), CE, FCC Class B, U.S. DOE Energy Star					
	Green Compliance	RoHS 2 Directive 2011/65/EU					
	Warranty	3-years Electronics / 2-years Batteries					
	Equipment Protection Policy	Up to \$50k (Continental U.S. and Canada only)					
	Battery/Surge-Protected Outlets	(4) NEM	A 5-15R	(5) NEMA 5-15R			
	Surge-only Protected Outlets	(4) NEM	A 5-15R	(5) NEM	IA 5-15R		
Input	Voltage Range		95VAC to	140VAC			
≦	Frequency Range	60Hz ±6Hz					
	Typical Transfer Time	6 ms (max 10ms)					
	Surge Protection	>500 joules					
ind	Voltage Default	95VAC to 140VAC					
Ourpur	Frequency	60Hz ±6Hz					
	Efficiency (AC-AC)	>95% at	full-rated load (c	omplies with Ene	rgy Star)		
e Z	Voltage		120	VAC			
On-Battery	Voltage Regulation	12	OVAC ±5% until	low battery warni	ng		
כ	Frequency	60H	dz ±0.5Hz unless	synchronized to	line		
	Wave Form	Simulated sine wave					
	Communications Port	USB (550/750/900 models only)					
	Audible Alarms	On Battery, Lo	ow Battery, Interr Disconnec	nal Fault, Overloa ted Battery	id, Weak/Bad/		
E	Full-Load Runtime (non-linear)	3 min.	3 min.	3 min.	3 min.		
Battery System	Half-Load Runtime (non-linear)	12 min.	11 min.	11 min.	11 min.		
<u>~</u>	Hot Swappable Batteries	Yes					
Batt	Interal Battery	Yes					
	Battery Type	Sealed, non-spillable, maintenance-free, valve regulated lead a					
rnysical	Net Dimensions: D x W x H	12.4" x 5.1" x 3.7" 12.6" x 7.2 (316 x 130 x 94 mm) (320 x 183 x					
r E	Net Weight: lbs. (Kgs.)	6.2 (2.81)	6.4 (2.90)	7.7 (3.49)	8.4 (3.81)		
	Shipping Dimensions: D x W x H	14.7" x 5.6" x 8.3" (373.4 x 142.2 x 210.8 mm) 15.0" x 5.6" x 10.4" (381.0 x 142.2 x 264.2 mm					
	Shipping Weight: lbs. (Kgs.)	7 (3.18)		9 (4.08)			











#### Feature-rich Design

- Compact case design
- LCD front panel display (EN750LCD, EN900LCD)
- USB communications (except EN350)
- · Hot-swappable batteries
- · Easy battery access
- RJ11/45 Network/Phone/Fax protection
- 3-year limited warranty (electronics) 2-year warranty (batteries)
- · RoHS 2 compliant
- · Energy Star certified
- Transformer-friendly receptacles
- · DC startup capability
- · Independent battery bypass
- Built-in self-diagnostics testing
- Audio & visual alarms
- ECO Mode (EN900LCD)

#### Compatible with Minuteman SentryHD Management Software

- Automatically saves and shuts down unfinished applications
- Gracefully powers down your PC during extended blackouts
- Provides comprehensive monitoring capabilities
- Integrates into SNMP network (when connected to a computer via USB port)
- · Free download at minutemanups.com/sentryhd
- Not supported by EN350

#### LCD Display Provides Real-Time Information (750/900 models)

- UPS status and condition
- · Battery capacity bar graph
- · Estimated runtime AC and DC modes
- Load capacity bar graph
- · Warning / Fault icons

#### Complete Protection for:

- · Desktop computers
- Standalone servers
- Network switches, hubs, and peripherals
- VoIP communications
- Telephone systems
- External computer accessories
- Security cameras and DVRs



Para Systems, Inc.

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# **MMS Series Surge Suppressors**

Standard, Rotating Outlet, and Slimline Series

## **Minuteman Value for Non-Critical Equipment**

Minuteman Power Technologies' line of MMS Series Surge Suppressors offer the value and features customers demand, and provide the opportunity to build a complete protection system with a single trusted name.

Three product lines are available, each offering protection from spikes and surges along with unique features that solve problems such as transformer blocks, wall-mounting, and child safety.

### **Standard Series**

- 1 & 3 outlet wall taps, 6 & 7 outlet strips
- Child safety covers on MMS370 & MMS370T
- Up to 1440J of surge protection
- Coax, network/phone line protection on select models
- Up to \$75,000 connected equipment protection
- Limited Lifetime Warranty (2-year on MMS362P)



Model Number Feature Codes

C Coax Protection



S Slimline Design

Telephone/Fax/Network Protection

### **Rotating Outlet Series**

Minuteman 'R' models feature 90° or 180° rotating outlets which accommodate multiple transformer blocks, making wasted outlets a thing of the past. Select models also feature cord management provisions, allowing for organized clutter-free installation.

- 6 outlet wall tap, 8, 10, or 12 outlet strips
- Rotating outlets allow multiple transformer blocks to be connected without covering multiple spaces
- Up to 4320J of surge protection
- Coax, network/phone line protection on select models
- Cord management feature on select models
- Up to \$200,000 connected equipment protection
- Limited Lifetime Warranty





**NEW MMS Slimline Series** 

Minuteman's newest surge suppressor line, the 'S' slimline series provides maximum protection in a sleek, attractive package. These units are designed to fit into tight spaces, and are the perfect solution for cramped media centers, desks, and wall-mounted tvs.

- 3 & 6 outlet wall taps, 6 & 8 outlet strips
- Rotating outlet/Rotating Coax on MMS130RC
- Up to 3420J of surge protection
- Coax, network/phone line protection on select models
- Up to \$200,000 connected equipment protection
- Limited Lifetime Warranty



Perfect protection for wall-mounted TVs!

Learn more about the slimline series at http://www.minutemanups.com/slimline





# Minuteman® MMS Series Surge Suppressors

MMS Model Number	MMS110	MMS130C	MMS362P	MMS370	MMS370T	MMS570	MMS760RCT
Electrical rating	15A, 120V, 1800 Watts			15A, 120V, 1800 Watts			s 15A, 120V, 1800 Watts
Joule rating	540J	1080J	241J	1080J	1440J	1440J	2160J
Outlet quantity	1	3	6	7	7	7	6
Rotating outlets	-	-	-	-	-	-	6
Receptacle covers	-	-	-	Yes	Yes	-	-
Surge protection mode	L-N, L-G, N-G	L-N, L-G, N-G	L-N	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G
UL clamping voltage	500V	400V	800V	400V	400V	400V	330V, 400V, 400V
Maximum peak current	36,000A	72,000A	12,000A	72,000A/96,000A	72,000A/96,000A	84,000A	144,000A
Max spike voltage	6KV	6KV	6KV	6KV	6KV	6KV	6KV
EMI/RFI Frequency	150KHz-100MHz	150KHz-100MHz	-	150KHz-100MHz	150KHz-100MHz	150KHz-100MHz	150KHz-100MHz
noise filter Attenuation	Up to 40dB	Up to 40dB	-	Up to 40dB	Up to 40dB	Up to 40dB	Up to 40dB
Telephone Jack type	-	-	-	-	RJ11/6P2C (1in/1out)	-	RJ11/6P2C (1 in / 2 out)
Fax Energy	-	-	-	-	160J	-	160J
Modem Line protection	-	-	-	-	1 Line	-	1 Line
Surge arrestor	-	Gas Tube	-	-	-	-	Gas Tube
DSS/Coax Breakdown volts	-	< 75V	-	-	-	-	< 75V
protection Insertion loss	-	< 0.1dB	=	-	=	-	< 0.1dB
Line protection	-	1 Line	=	=	=	=	1 Line
Power cord length	-	-	3 ft.	6 ft.	6 ft.	9 ft.	-
Surge protected indicator	Yes	Yes	-	Yes	Yes	Yes	Yes
Ground OK indicator	Yes	Yes	-	Yes	Yes	Yes	Yes
Surge circuit shutdown	Yes	Yes	-	Yes	Yes	Yes	Yes
Power safety shutdown (L-N)	Yes	Yes	-	Yes	Yes	Yes	Yes
Cord management	-	-	-	-	-	Yes	-
Accessories	-	Coax Cable x 1	-	-	Tel Cable x 1	-	Tel Cable x 1 + Coax Cable x 1
Safety approvals	UL1449, UL1363, cUL	UL1449. UL1363. cU	L UL1449, UL1363, cUL	UL1449, UL1363, cUL	UL1449, UL1363, cUL	UL1449, UL1363, cUL	
Warranty	Limited Lifetime	Limited Lifetime	Two-year Limited	Limited Lifetime	Limited Lifetime	Limited Lifetime	Limited Lifetime
MMS Model Number	MMS780R	MMS7100RT	MMS7120RCT	MMS130RC	MMS660S	MMS664S	MMS686SCT
Electrical rating		15A, 120V, 1800 Watts	15A, 120V, 1800 Watts	15A, 120V, 1800 Watts		15A, 120V, 1800 Watts	15A, 120V, 1800 Watts
Joule rating	2160J	2880J	4320J	1080J	540J	1080J	3420J
Outlet quantity	8	10	12	3	6	6	8
Rotating outlets	6	5	8	1	_	_	_
Surge protection mode							
UL clamping voltage	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G	L-N, L-G, N-G
	L-N, L-G, N-G 330V, 400V, 400V		L-N, L-G, N-G 330V, 400V, 400V	L-N, L-G, N-G 400V	L-N, L-G, N-G 500V	L-N, L-G, N-G 400V	L-N, L-G, N-G 400V
Maximum peak current		L-N, L-G, N-G					
Maximum peak current Max spike voltage	330V, 400V, 400V	L-N, L-G, N-G 330V, 400V, 400V	330V, 400V, 400V	400V	500V	400V	400V
·	330V, 400V, 400V 144,000A	L-N, L-G, N-G 330V, 400V, 400V 180,000A	330V, 400V, 400V 252,000A	400V 72,000A	500V 36,000A	400V 72,000A	400V 20,400A
Max spike voltage	330V, 400V, 400V 144,000A 6KV	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV	330V, 400V, 400V 252,000A 6KV	400V 72,000A 6KV	500V 36,000A 6KV	400V 72,000A 6KV	400V 20,400A 6KV
Max spike voltage EMI/RFI Frequency noise filter Attenuation	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz
Max spike voltage EMI/RFI Frequency	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB
Max spike voltage EMI/RFI Frequency noise filter Attenuation Telephone Jack type	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out)	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out)	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out)
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J
Max spike voltage EMI/RFI Frequency noise filter Attenuation Telephone Jack type Fax Energy Modem Line protection	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line
Max spike voltage EMI/RFI Frequency noise filter Attenuation Telephone Jack type Fax Energy Modem Line protection Network Jack type	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6	400V 72,000A 6KV 150KHz-100MHz	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy Modem Line protection  Network Jack type line Protection port protection Communication speed	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5)	400V 72,000A 6KV 150KHz-100MHz Up to 70dB - - - - -	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port protection  Communication speed Surge arrestor  DSS/Coax Breakdown volts	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy Modem Line protection  Network Jack type line Protection port protection Communication speed  Surge arrestor	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy Modem Line protection Network Jack type line Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Insertion loss	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy Modem Line protection  Network Jack type Iine Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Insertion loss Line protection	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - -	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line	500V 36,000A 6KV 150KHz-100MHz	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type Iine Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Power cord length	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - - - - -	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft.	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft.	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line -	500V 36,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - -	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft.
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Power cord length Surge protected indicator	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - - - - -	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft. Yes	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft. Yes	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line - Yes	500V 36,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - -	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft. Yes
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Power cord length Surge protected indicator Ground OK indicator Surge circuit shutdown	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - - - - -	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft. Yes	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft. Yes Yes	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line - Yes -	500V 36,000A 6KV 150KHz-100MHz Up to 40dB	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft. Yes Yes
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type Iine Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Power cord length Surge protected indicator Ground OK indicator Surge circuit shutdown Power safety shutdown (L-N)	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft. Yes Yes Yes	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft. Yes Yes Yes Yes	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line - Yes - Yes	500V 36,000A 6KV 150KHz-100MHz Up to 40dB	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft. Yes Yes
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Power cord length Surge protected indicator Ground OK indicator Surge circuit shutdown	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB - - - - - - - - - - - - -	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft. Yes Yes	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/ 6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft. Yes Yes Yes Yes Yes Yes Yes Tel cable x 1 + Coax cable	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line - Yes - Yes Yes	500V 36,000A 6KV 150KHz-100MHz Up to 40dB	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft. Yes Yes Yes
Max spike voltage  EMI/RFI Frequency noise filter Attenuation  Telephone Jack type Fax Energy  Modem Line protection  Network Jack type line Protection port protection Communication speed Surge arrestor  DSS/Coax Breakdown volts protection Insertion loss Line protection Power cord length Surge protected indicator Ground OK indicator Surge circuit shutdown Power safety shutdown (L-N) Cord management	330V, 400V, 400V 144,000A 6KV 150KHz-100MHz Up to 40dB	L-N, L-G, N-G 330V, 400V, 400V 180,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 in/1 out) 160J 1 Line 7 ft. Yes Yes Yes Yes Yes Yes Tel Cable x 1	330V, 400V, 400V 252,000A 6KV 150KHz-100MHz Up to 58dB RJ11/6P2C (1 out) 160J 1 Line RJ45 8P8C/(1in/2out)combo 1, 2, 3, 6 10/ 100 Base-T (Cat 5) Gas Tube < 75V < 0.1dB 1 Line 9 ft. Yes Yes Yes Yes Yes Yes	400V 72,000A 6KV 150KHz-100MHz Up to 70dB Gas Tube < 75V < 0.1dB 1 Line - Yes - Yes Yes	500V 36,000A 6KV 150KHz-100MHz Up to 40dB	400V 72,000A 6KV 150KHz-100MHz Up to 40dB	400V 20,400A 6KV 150KHz-100MHz Up to 58dB RJ11/45 (1 in/1 out) 160J 1 Line Gas Tube < 75V < 0.1dB 1 Line 6 ft. Yes Yes Yes

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