

The Minuteman[®] line of power distribution, power protection, and power management products have features and capabilities included in the standard product that increase the versatility of the products. This reduces the need for custom, non-standard configurations and allows for a better availability of products to fill your needs.

- One day shipment of in-stock units
- Standard: UL 60950-1 listed products
- More features per dollar

POWER DISTRIBUTION UNITS - MMPD SERIES



*PDU with amp-meter - MMPD Series
(MMPD1415HVA 1U model shown)*

- 15 ft (4.6m) power cords available on some models
- From 6 to 24 outlets (8-, 10- and 14-outlet units also have outlets on front and back)
- Versatility - units can be mounted either vertically or horizontally in most racks and enclosures
- Premium features at a lower cost
- High standards - listed with the new UL 60950-1 standard for data centers
- Wallmount option available for 48, 60 and 62 inch models, as well as MMS620V16PC6 and MMPD615V12PC6
- Amp-metered units available
- Limited lifetime warranty

POWER DISTRIBUTION UNITS WITH SURGE SUPPRESSION - MMS SERIES



*PDU with surge suppression - MMS Series
(MMS1020HV model shown)*

- Superior protection: 840 to 2000 Joules
- Longer, 15-ft power cords available on some models
- High standards - listed with the new UL 60950-1 and with UL 1449 standards
- Limited lifetime warranty
- \$50,000 Minuteman Platinum Protection Plan[®] (U.S.A. and Canada only)

MINUTEMAN® POWER DISTRIBUTION UNITS (PDU) – MMPD SERIES

Building on the expertise and experience of over 25 years in the power protection industry, Para Systems, Inc. developed the Minuteman® Power Distribution Unit (PDU) with its traditional high quality and exceptional value.

The MMPD Series provides a comprehensive feature set on its standard products usually found only on more expensive or custom products. These include:

- **Longer power cords** - Several Minuteman PDU units have 15-ft power cords, eliminating the need for 6-, 8-, or 10-ft alternatives.
- **More standard outlets** – Minuteman PDU units have 6, 8, 10, 14, 18, 20, or 24 outlets. Most of the Minuteman PDUs have additional front outlets for improved access.
- **Configuration versatility** - Minuteman PDU units have a multi-form factor with 2U, 1U, and 0U configurations allowing for either horizontal or vertical placement. 1U products ship with a stand-off mounting bracket, at no additional cost, that allows for vertical installation on most racks and enclosures.
- **High standards** - PDUs are listed with higher UL 60950-1 standards. MMPD Series is compatible with any data center or network installation.

- **Cost effective** - More outlets, longer cords and more features are what make the MMPD Series the best value today. The features are all standard with the MMPD Series.
- **Higher reliability** - Designed for higher reliability, Minuteman PDUs' switchless design and on/off LEDs provide greater MTBF (Mean Time Between Failure).
- **Load-metering** – Amp-metered units are available to display connected equipment loads.
- **Protected investment** – All Minuteman PDUs carry a limited lifetime warranty.

The MMPD line offers products ranging in capacity from 15 to 30 Amps, in both vertical and horizontal orientations, as well as models featuring surge suppression and load metering. IP addressable control is available with our remote power monitoring units.

Minuteman PDUs are housed in a sturdy, black, metal case with heavy-duty outlets. The power cords are all strain-relieved with molded plugs and use heavy-gauged cables. All models have an external ground stud.



Power Distribution Units - MMPD Series
(MMPD81530H, 30-Amp, horizontal unit shown)



0U vertical mounting MMPD models
(MMPD1815V48, 15-Amp, 48-inch vertical unit shown)

MINUTEMAN® PDUs WITH SURGE SUPPRESSION – MMS SERIES

Minuteman PDUs with surge suppressors help protect your investment while addressing your power distribution needs. Stressing the need to support standards within the IT community, Minuteman surge suppressor products are UL certified under the new UL 60950-1 rating. This rating assures IT professionals that the units are compatible with the latest data center and network installations. Additionally, the Minuteman MMS Series surge suppression models have UL 1449 certification.

Major advantages of the MMS Series Surge Suppressors include:

- **Superior equipment protection** – 840-2000 Joules of surge protection on each unit.
- **Convenient outlets** – Two of the models have outlets on both the front and rear of the unit.
- **Higher reliability** – The switchless design and on/off LEDs provide greater MTBF.
- **Longer power cords** – Two Minuteman models have 15-ft power cords, eliminating the need for 6-, 8- or 10-ft alternatives.
- **Versatility** – Units can be mounted either vertically or horizontally in most racks and enclosures.

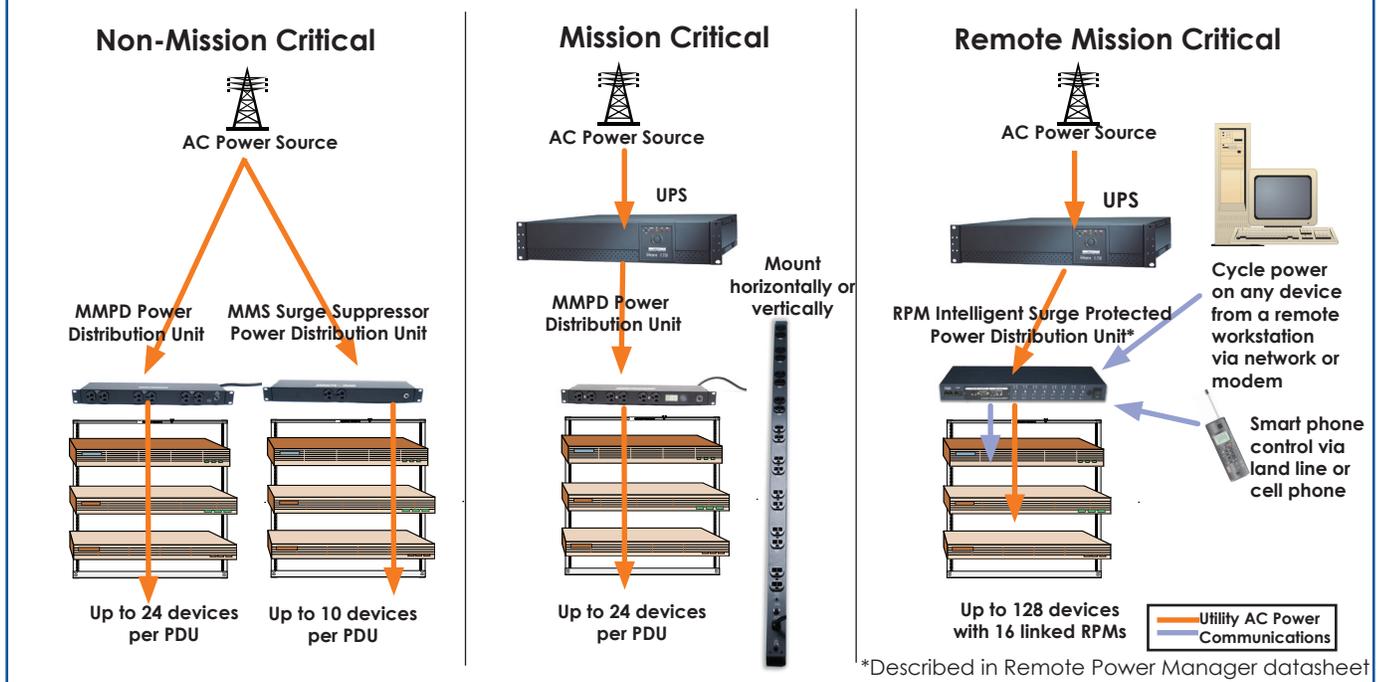
- **High standards** - Listed with higher UL 60950-1 standards, the MMS Series is compatible with data center or network installation. Additionally, the Minuteman MMS Series surge suppression models have a UL 1449 rating.

By adhering to the same philosophies and quality standards used in the design of uninterruptible power supplies, Simplicity, quality and value have been brought to products that supply rack and cabinet power to today's sophisticated network installations.



Surge Suppressor Power Distribution Units - MMS Series
(MMS1020HV, 20-Amp, horizontal/vertical unit shown)

Minuteman® Power Protection, Distribution, and Management Products Protect Your Investment



MINUTEMAN® RACKMOUNT SURGE SUPPRESSORS SPECIFICATIONS

Model	MMS1015HV	MMS620V16PC6	MMS1020HV/ MMS1020HVL*
Description	Surge - 15 Amp 10-outlet	Surge - 20 Amp 6-outlet	Surge - 20 Amp 10-outlet
Dimensions (HxWxD)	1.7 x 17.0 x 3.5 in 44 x 431 x 90 mm	1.5 x 16.0 x 1.6 in 38 x 406 x 42 mm	1.7 x 17.0 x 3.5 in 44 x 432 x 90 mm
Mounting orientation	1U/0U	0U	1U/0U
Maximum capacity	12-Amp	16-Amp	
Power cord length • Type	15ft (4.6m) • 5-15P	6ft (1.8m) • 5-20P	15ft (4.6m) • 5-20P
Total outlets	10	6	10
Outlets(type) - Front • Rear	2 x (5-15R) • 8 x (5-15R)	6 x (5-15/20R) • N/A	2 x (5-15/20R) • 8 x (5-15/20R)
Joule rating	2000J	840J	2000J
Power ON/OFF LED	Yes	No	Yes
Surge protection LED	Yes		
Circuit breaker UL 1077	One 15-Amp	One 20-Amp	
Circuit quantity	One		
Built-in Amp meter	No		
Audible overload alarm	No		
Input/Output voltage	120V/120V		
Frequency	50/60Hz		
Included brackets	Rackmount, Additional 0U	0U and Wallmount	Rackmount, Additional 0U
Safety approvals	UL 60950-1, UL 1449, cUL, CE		

* denotes lock input plug with "L" models

Minuteman® Power Distribution Unit (PDU) Specifications

Model	MMPD615V12PC6	MMPD815HV	MMPD1415HV	MMPD1815V48	MMPD2415V62	MMPD1020HV / MMPD1020HVL
Description	PDU - 15 Amp 6-outlet	PDU - 15 Amp 8-outlet	PDU - 15 Amp 14-outlet	PDU - 15 Amp 18-outlet	PDU - 15 Amp 24-outlet	PDU - 20 Amp 10-outlet
Dimensions (HxWxD)	1.5 x 12.0 x 1.6 in 38 x 304 x 41 mm	1.7 X 17.0 X 3.5 IN 44 x 432 x 90 mm		1.6 x 48.0 x 1.5 in 42 x 1219 x 38 mm	1.6 x 62.0 x 1.5 in 42 x 1575 x 39 mm	1.7 x 17.0 x 3.5 in 44 x 432 x 90 mm
Mounting orientation	0U, Wallmount	1U,0U		0U,Wallmount		1U/0U
Maximum capacity	12 Amp					16 Amp
Power cord length	6 ft (1.8m)	15 ft (4.6 m)				
Power cord type	5-15P					5-20P
Total outlets	6	8	14	18	24	10
Outlets(type) - Front	6 x (5-15R)	6 x (5-15R)	6 x (5-15R)	18 x (5-15R)	24 x (5-15R)	2 x (5-15/20R)
Outlets(type) - Rear	N/A	2 x (5-15R)	8 x (5-15R)	N/A		8 x (5-15/20R)
Power ON/OFF LED	No	Yes				
Circuit breaker UL 1077	One 15-Amp					One 20-Amp
Circuit quantity	One					
Built-in Amp-meter	No					
Audible overload alarm	No					
Input/Output voltage	120V/120V					
Frequency	50/60Hz					
Included brackets	0U, Wallmount	Rackmount, Additional 0U		0U/Wallmount		Rackmount / Additional 0U
Safety approvals	UL 60950-1, cUL, CE					

Model	MMPD1420HV / MMPD1420HVL*	MMPD2020V60DCL*	MMPD2420V62 / MMPD2420V62 L*	MMPD81530H	MMPD2420VA62 / MMPD2420VA62L*	MMPD1415HVA
Description	PDU - 20 Amp 14-outlet	PDU - 20 Amp 20-outlet	PDU - 20 Amp 24-outlet	PDU - 30 Amp 8-outlet	PDU -20 Amp 24-outlet	PDU - 15 Amp 14-outlet
Dimensions (HxWxD)	1.7 x 17.0 x 3.5 in 44 x 432 x 90 mm	1.6 x 60.0 x 1.5 in 42 x 1524 x 38 mm	1.6 x 62.0 x 1.5 in 41 x 1575 x 38 mm	3.5 x 17.0 x 3.5 in 90 x 432 x 90 mm	1.6 x 62.0 x 1.5 in 41 x 1575 x 38 mm	1.7 x 17.0 x 3.5 in 44 x 432 x 90 mm
Mounting orientation	1U,0U	0U, Wallmount	0U, Wallmount	2U	0U, Wallmount	1U/0U
Maximum capacity	16-Amp			24-Amp	16-Amp	12-Amp
Power cord length	15 ft (4.6 m)	Two 15 ft (4.6 m)	15 ft (4.6 m)			
Power cord type	5-20P	Two L5-20P	5-20P	L5-30P	5-20P	5-15P
Total outlets	14	20	24	8	24	14
Outlets(type) - Front	6 x (5-15/20R)	20 x (5-15/20R)	24 x (5-15/20R)	4 x (5-15R)	24 x (5-15/20R)	6 x (5-15R)
Outlets(type) - Rear	8 x (5-15/20R)	N/A	N/A	4 x (L5-30R)	N/A	8 x (5-15R)
Power ON/OFF LED	Yes					
Circuit breaker UL 1077	One 20-Amp	Two 20-Amp	One 20-Amp	One 15-Amp	One 20-Amp	One 15-Amp
Circuit breaker UL 489	No			One 30-Amp	No	
Circuit quantity	One	Two	One	Two	One	
Built-in Amp-meter	No				Yes	
Audible overload alarm	No				Yes	
Input/Output voltage	120V/120V					
Frequency	50/60Hz					
Included brackets	Rackmount/ Additional 0U	0U/ Wallmount		Rackmount	0U/ Wallmount	Rackmount / Additional 0U
Safety approvals	UL 60950-1, cUL, CE					

* denotes lock input plug with "L" models



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