

### Industry-leading Functionality

The Minuteman SV Series features a field-proven Digital Signal Processor (DSP) achieving high reliability, while providing protection from electrical power disturbances to its connected loads. Industry-leading functionality is standard and includes hot swappable batteries, a powerful internal charger, emergency shut-down controls and programmable receptacles.



#### High-end Features - Budget Friendly Price

- True Double Conversion Online UPS
- Unity Output Power Factor
- Tower/Rack Mount Convertible Design
- Compact and Lightweight
- Advanced Digital Control Technology
- Wide Input Voltage and Frequency Ranges
- LCD/LED Mimic Screen Personalization
- Programmable Power Management Outlets
- Eco and Advanced Eco Mode for Energy Saving
- Emergency Power Off Function (EPO)
- Communications Capability
- Intelligent Self-Diagnostics
- High-Efficiency and Protection
- · Advanced Battery Management

### **Optional Features**

- Variety of Customer Options Slot
- Manual Maintenance Bypass

## **Ideally Suited to Protect:**

- Education/Research Laboratories
- Processing Manufacturing (Food/Beverage, Pharmaceutical, Plastics, Packaging)
- Water and Waste Water Treatment
- Hospitals/Medical
- Retail
- Broadcast
- Robotics
- Printing
- Paper Production
- Network Equipment
- Servers



# **Minuteman® SV Series Online UPS Specifications**

SV)	1000RT230	1500RT230	2000RT230	3000RT230	
VA/ Watts	1000 VA	1500 VA	2000 VA	3000 VA 3000 W	
	1000 VV	1500 W	2000 W	3000 W	
Rated Volts		220-	240 VAC		
	160 VAC/140 VAC/120 VAC/110 VAC ± 5 %				
Transfer	(based on load percentage 100%-80% / 80%-70% / 70%-60% / 60%-0)				
Low Line Comeback	175 VAC/155 VAC/135 VAC/125 VAC ± 5 %				
High Line Transfer	300 VAC ± 5 %				
High Line Comeback	290 VAC ± 5 %				
requency Range		40 Hz	z ~ 70 Hz		
Power Factor					
THDi					
		1HDU < 1.6% @ input ai	nd full linear load condition		
		200/209/22	0/220/240 VAC		
	· · · · · · · · · · · · · · · · · · ·				
	· /				
(THDU)	<4% (Non-Linear load)				
Transfer Time	Zero				
Waveform		Pure 9	Sinewaye		
	>0	00%		010/	
				91%	
			.5070		
	(2) 12V/9Ah	(3) 12V/9Ah	(4) 12V/9Ah	(6) 12V/9Ah	
				(0) 12 47 37 11	
			identy (ren i ten //2 iniedens enny)	2A (default)	
			5.4.7.V.D.G. 4.0V	82.1VDC ± 1%	
	27.4 VDC ± 1%	41.1 VDC ± 1%	54./ VDC ± 1%		
harging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	54.7 VDC ± 1%		
	27.4 VDC ± 1%		2l, Alarms, Operating Mode		
harging Voltage PLAY		Load level, Battery Leve	el, Alarms, Operating Mode		
harging Voltage PLAY Status	Input Voltage an	Load level, Battery Leve d Frequency, Output Voltage an		ne (hours/minutes)	
harging Voltage PLAY Status Readings	Input Voltage an (	Load level, Battery Leve d Frequency, Output Voltage an	el, Alarms, Operating Mode ad Frequency, Battery Backup Tin	ne (hours/minutes)	
PLAY Status Readings I/Select Buttons	Input Voltage an ( //S Low battery, Ov	Load level, Battery Leve d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, I erload, Battery Not Connected, Overc	el, Alarms, Operating Mode ad Frequency, Battery Backup Tin navigate LCD screen & Mute Alar harge, Site Wiring Fault, EPO Enabled, (	ne (hours/minutes) ms Over Temperature,	
harging Voltage PLAY Status Readings I/Select Buttons & VISUAL ALARN rning Indicators	Input Voltage an ( //S Low battery, Ov Ch	Load level, Battery Leve d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, I erload, Battery Not Connected, Overc	el, Alarms, Operating Mode ad Frequency, Battery Backup Tin navigate LCD screen & Mute Alar	ne (hours/minutes) ms Over Temperature,	
harging Voltage PLAY Status Readings I/Select Buttons & VISUAL ALARN rning Indicators CAL WEIGHT & D	Input Voltage an ( /IS Low battery, Ov Ch  MENSIONS H" x W" x D" / [mm]   3.46" x 17.24" x 16.14" (2U)	Load level, Battery Level d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, I erload, Battery Not Connected, Overcarger Failure, Battery Fault, Bypass Ot 3.46" x 17.24" x 16.14" (2U)	el, Alarms, Operating Mode ad Frequency, Battery Backup Tin navigate LCD screen & Mute Alar harge, Site Wiring Fault, EPO Enabled, Out of Range and Bypass Frequency Uns 3.46" x 17.24" x 20.08" (2U)	ne (hours/minutes) rms OverTemperature, stable 3.46" x 17.24" x 24.80" (2U)	
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harging Voltage PLAY Status Readings I/Select Buttons & VISUAL ALARN rning Indicators CAL WEIGHT & D Rack Mount Tower	Input Voltage an  (MS  Low battery, Ov Ch  MENSIONS H" x W" x D" / [mm] 3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410] 17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0]	Load level, Battery Level d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, in erload, Battery Not Connected, Overcarger Failure, Battery Fault, Bypass Ot 3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410] 17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0]	el, Alarms, Operating Mode ad Frequency, Battery Backup Tin navigate LCD screen & Mute Alar harge, Site Wiring Fault, EPO Enabled, out of Range and Bypass Frequency Uns  3.46" x 17.24" x 20.08" (2U) [88 x 438 x 510]  17.24" x 3.46" x 20.08" (2U) [438.0 x 87.9 x 510.0]	ne (hours/minutes) rms  OverTemperature, stable  3.46" x 17.24" x 24.80" (2U) [88 x 438 x 630]  17.24" x 3.46" x 24.80" (2U) [438.0 x 87.9 x 629.9]	
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harging Voltage PLAY  Status Readings I/Select Buttons & VISUAL ALARN rning Indicators CAL WEIGHT & D Rack Mount  Tower Weight lbs. / (kg) NMENT (Electroni Operating Humidity Storage Noise Level	Input Voltage an  (MS  Low battery, Ov Ch  MENSIONS H" x W" x D" / [mm] 3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410] 17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0] 26 / (12)  cs)  NICATION	Load level, Battery Leved Frequency, Output Voltage and Duttons to turn UPS On/Off, I erload, Battery Not Connected, Overcarger Failure, Battery Fault, Bypass Off Salar	el, Alarms, Operating Mode and Frequency, Battery Backup Tin navigate LCD screen & Mute Alar tharge, Site Wiring Fault, EPO Enabled, out of Range and Bypass Frequency Uns  3.46" x 17.24" x 20.08" (2U) [88 x 438 x 510] 17.24" x 3.46" x 20.08" (2U) [438.0 x 87.9 x 510.0] 43 / (20)  to 104°F (40°C) on-condensing) (32°F - 104°F TERIES (REFRESH Charge @ 3 more	ne (hours/minutes) rms  Over Temperature, stable  3.46" x 17.24" x 24.80" (2U)         [88 x 438 x 630]  17.24" x 3.46" x 24.80" (2U)         [438.0 x 87.9 x 629.9]         61 / (28)	
harging Voltage PLAY  Status Readings I/Select Buttons & VISUAL ALARN rning Indicators  CAL WEIGHT & D  Rack Mount  Tower Weight lbs. / (kg) NMENT (Electroni Operating Humidity Storage Noise Level EMENT / COMMUN Dart RS-232/USB Optional SNMP/	Input Voltage an  (MS  Low battery, Ov Ch  MENSIONS H" x W" x D" / [mm] 3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410] 17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0] 26 / (12)  cs)  NICATION	Load level, Battery Level d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, i erload, Battery Not Connected, Overcarger Failure, Battery Fault, Bypass Ou  3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410]  17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0] 34 / (15)  32°F (0°C) t 20-90 % RH @ 0 - 40° C (n 3°F (-25°C) to 104°F (40°C) BATT Less than 50  poorts Windows 2000/2003/XP/V	el, Alarms, Operating Mode and Frequency, Battery Backup Tin havigate LCD screen & Mute Alar harge, Site Wiring Fault, EPO Enabled, Out of Range and Bypass Frequency Uns  3.46" x 17.24" x 20.08" (2U) [88 x 438 x 510] 17.24" x 3.46" x 20.08" (2U) [438.0 x 87.9 x 510.0] 43 / (20)  to 104°F (40°C) on-condensing) (32°F - 104°F TERIES (REFRESH Charge @ 3 more odBA @ 1 Meter  ista/2008/7/8/10, Linux, Unix, an	ne (hours/minutes) rms  Over Temperature, stable  3.46" x 17.24" x 24.80" (2U)         [88 x 438 x 630]  17.24" x 3.46" x 24.80" (2U)         [438.0 x 87.9 x 629.9]         61 / (28)	
harging Voltage PLAY  Status Readings I/Select Buttons & VISUAL ALARN rning Indicators  CAL WEIGHT & D  Rack Mount  Tower Weight lbs. / (kg) NMENT (Electroni Operating Humidity Storage Noise Level EMENT / COMMUN Dart RS-232/USB Optional SNMP/ MODBUS	Input Voltage an  (MS  Low battery, Ov Ch  MENSIONS H" x W" x D" / [mm] 3.46" x 17.24" x 16.14" (2U) [88 x 438 x 410] 17.24" x 3.46" x 16.14" (2U) [438.0 x 87.9 x 410.0] 26 / (12)  cs)  NICATION	Load level, Battery Level d Frequency, Output Voltage an 3) buttons to turn UPS On/Off, I erload, Battery Not Connected, Overcarger Failure, Battery Fault, Bypass On  3.46" x 17.24" x 16.14" (2U)  [88 x 438 x 410]  17.24" x 3.46" x 16.14" (2U)  [438.0 x 87.9 x 410.0]  34 / (15)  32°F (0°C) t  20-90 % RH @ 0 - 40° C (n 3°F (-25°C) to 104°F (40°C) BATT  Less than 50  poorts Windows 2000/2003/XP/V  Power management from SN	el, Alarms, Operating Mode and Frequency, Battery Backup Tin havigate LCD screen & Mute Alar harge, Site Wiring Fault, EPO Enabled, out of Range and Bypass Frequency Uns  3.46" x 17.24" x 20.08" (2U) [88 x 438 x 510] 17.24" x 3.46" x 20.08" (2U) [438.0 x 87.9 x 510.0] 43 / (20)  10.104°F (40°C)	ne (hours/minutes) rms  Over Temperature, stable  3.46" x 17.24" x 24.80" (2U)         [88 x 438 x 630]  17.24" x 3.46" x 24.80" (2U)         [438.0 x 87.9 x 629.9]         61 / (28)	
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	Rated Volts Low Line Transfer Low Line Comeback High Line Transfer High Line Comeback requency Range Power Factor THDi  Output Voltage tage Regulation requency Range requency Range requency Range Trest Ratio (CF) nonic Distortion (THDU) Transfer Time Waveform (Battery Mode) CY AC Mode Battery Mode ECO Mode  Battery Type Recharge Time	Rated Volts  Low Line Transfer Low Line Comeback High Line Comeback requency Range Power Factor THDi  Output Voltage tage Regulation requency Range requency Range Crest Ratio (CF) nonic Distortion (THDU) Transfer Time Waveform (Battery Mode) CY AC Mode Battery Mode ECO Mode  Battery Type G Current (max.)	Rated Volts	VAV watts         1000 W         1500 W         2000 W           Rated Volts         220-240 VAC           Low Line Transfer         160 VAC/140 VAC/120 VAC/110 VAC ± 5 %           Low Line Comeback         175 VAC/155 VAC/135 VAC/125 VAC ± 5 %           High Line Transfer         300 VAC ± 5 %           High Line Comeback         290 VAC ± 5 %           Equency Range         40 Hz ~ 70 Hz           Power Factor         ≥0.99 @nominal voltage           THDi         ≤ 5% @ 205-245VAC           THDU < 1.6% @ input and full linear load condition	

<sup>\*</sup> Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC.

