


CSI/SPECO

UPS

UPS-250	Output - 250VA/150W. Max load - 300VA/195W. Dimensions in inches (HxWxD) - 6 x 4 x 10 3/4. Weight - 11 lbs.	
UPS-400	Output - 400VA/240W. Max load - 400VA/260W. Dimensions in inches (HxWxD) - 6 x 4 x 10 3/4. Weight - 13.75 lbs.	
UPS-600	Output - 600VA/360W. Max load - 600VA/390W. Dimensions in inches (HxWxD) - 6 x 4 x 14 3/4. Weight - 17.5 lbs.	

Input voltage - 115VAC/maximum input voltage range 92V-146VAC. Protection - over current and short-circuit, latching shutdown on overload and low battery protection. Typical runtime - 10-15 minutes half load, 3-4 minutes full load. Communication port - RS-232.

GC/Waldom

Line Interactive UPS

64-425	425VA
64-625	625VA
64-1001	1000VA



Complete protection for internet computers and advanced server. Features: Replace battery LED. On-battery LED. On-line LED. On/off/test/silence button. Communication interface port. Tel/modem surge protection port. Scheduled system shutdown and reboot. Data log for power quality and UPS/power events. Automatic shutdown and reboot. Real-time graphical for UPS status and power events. Broadcast power abnormal status. Software control on/off output power. Monitoring software included. Voltage regulation range: ±15% at line input. Frequency: 50 or 60 Hz ±10%. Voltage on battery: simulated sine wave 115 V ±5%. Frequency on battery: 50 or 60 Hz ±5%. Spike protection: 320 joules. Unit input: fuse for overload and short circuit. EMI/RFI filter: 10 dB @ 0.15 MHz, 50 dB @ 30 MHz. Short circuit: UPS output cut off immediately.

Multi-Device UPS

64-501



Protect your PC, external storage drives and monitor with battery backup. Spread full-time surge suppression keeps any remaining integrated peripherals, like modems and phone systems safe. Features: Overload, battery fault, charging battery and line OK indicators. On/test button. Input circuit breaker. Monitoring software included. Capacity: 500VA. Spike protection: 240 joules. EMI/RFI filter: 10 dB @ 0.15 MHz, 5 dB @ 30 MHz. Output voltage on battery: simulated sine wave 115 V ±5%. Outputs: 4 UPS, 4 surge. Tel/Fax/Modem: single line (2 wires, RJ11 or 10Base T Cable Port). Network (UTP, 11RJ45): compatible jacks. Short circuit: output - immediate UPS cutoff; input - circuit breaker protection. Battery back-up: 14-28 minutes depending on computer load.



2000 Series Line-Interactive UPS

The most compact line-interactive UPS on the market, Sola 2000 series UPS's protect against most adverse power conditions. This UPS protects against over and under voltages by raising and lowering utility power to the right level for sensitive equipment - all without transfer to battery. Overload protection continually monitors the UPS load preventing inadvertent shutdown during emergency situations and optimizing battery life. Full-sequence battery testing delivers comprehensive testing of your battery and system, through both a 14-day automatic test and a single-push manual test, ensuring the battery is emergency ready. With its comprehensive power protection, the Sola 2000 is perfect for PC, Point-of-Sale, Network or Industrial applications. UL and cUL: 115 VAC models. TÜV/GS and CE: 230 VAC models. Features: Line-interactive with Automatic Voltage Regulation (AVR) topology. Protects against most adverse power conditions including: frequency variations, surge, noise, blackouts, lightning, spike, brownouts and over/under voltages. Data-line surge protection for phone or network included. DB9 Communications Interface. Greater uptime with intelligent power management, full-sequence battery testing and two-level overload protection. Step sine wave output. Two-year warranty with optional extensions to five years. Twenty-five thousand dollar UPS Power Protection Promise. Applications: PCs, workstations, PLCs and computer peripherals.



Catalog Number	Cap. (VA/W)	Volts, Frequency In/Out	Typ. Runtime (mins.)	Input Plug/ Output Receptacle	Approximate Shipping Wgt. lbs. (kg)
S2350	350/210	115/115, 50/60 Hz	5/15	5-15P/ (4)5-15R	13.2 (6.0)
S2470	470/282	115/115, 50/60 Hz	5/12	5-15P/ (4) 5-15R	15.4 (7.0)
S2700	700/420	115/115, 50/60 Hz	5/13	5-15P/ (4) 5-15R	22 (10.0)

3000 Series Line-Interactive UPS

For blackout protection coupled with advanced power conditioning, Sola 3000 series UPS's with sophisticated line-interactive technology will filter utility power to eliminate spikes, noise and other transients. A voltage buck and boost circuit corrects input voltage as low as 25% below nominal, and as high as 23% above nominal, and does it without switching to battery back-up. This reduces battery demand and increases battery life. CE approval for 230 VAC products only. Features: Step sine wave output. Two year warranty with optional extensions to five years. Twenty-five thousand dollar UPS Power Protection Promise. Batteries are user replaceable.



Catalog Number	Cap. (VA/W)	Volts, Frequency In/Out	Typ. Runtime (mins.)	Input Plug/ Output Receptacle	Approximate Shipping Wgt. lbs. (kg)
S3700	700/450	120/120, 50/60 Hz	6/18	5-15P/ (4)5-15R	29.9 (13.6)
S31000	1000/ 670	120/120, 50/60 Hz	7/18	5-15P/ (6) 5-15R	43.4 (19.7)
S31400	1400/ 950	120/120, 50/60 Hz	5/20	5-15P/ (6) 5-15R	49.4 (22.5)
S32200	2200/ 1600	120/120, 50/60 Hz	5/19	L5-30P (6)5-15R & (2) 5-20R	81.7 (37.1)



4000 Series True On-Line UPS



Sola 4000 Series True On-Line (double conversion) Uninterruptible Power System eliminates a wider range of potential power problems (spikes, surges and extended over-voltage, noise and other transients, sags and extended brownouts) even difficult-to-track harmonics and dangerous frequency variations that are common with standby generator operation. Each unit comes with a detachable, 6-foot input cord. Features: Input and output noise suppression. Input power factor correction. Two step battery recharge. PWM inverter. Battery fuses. External battery packs available. Integral sealed, non-spillable, user replaceable battery. Two speed fan. Automatic restart. Automatic and manual battery test. Microprocessor-based control and feature with push button and indicator monitoring package. RS232 communication port. Input/output voltage selector switch: 120 VAC models (100, 110, 120, 127) and 208 & 230 VAC models (208, 220, 230, 240). Integral dynamic bypass. Compatible with standby generator operation. Two-year warranty with optional extensions to five years. Twenty-five thousand dollar UPS Power Protection Promise. The LED display indicates annunciation of battery capacity, percentage of UPS load, battery operation, bypass operation and UPS fault condition. The rack-tower models are also supplied with securing flanges and rack slide mounting hardware.

Mini-Tower Unit, 120 VAC, 50/60 Hz

Catalog Number	Capacity (VA/W)	Typical Runtime (minutes)	Input Plug/ Output Receptacle	Approx. Ship Weight lbs. (kg)
S4700	700/490	8/19	5-15P/(4) 5-15R	29.9 (13.6)
S41000	1000/700	6/17	5-15P/(4) 5-15R	35.4 (16.1)

Rack-Tower Unit, 120 VAC, 50/60 Hz

Catalog Number	Capacity (VA/W)	Typical Runtime (minutes)	Input Plug/ Output Receptacle	Approx. Ship Weight lbs. (kg)
S41000TRM	1000/700	7/18	5-15P/ (8) 5-15R	56.3 (25.6)
S41500TRM	1500/1050	7/15	5-15P/(8) 5-15R	62.9 (28.6)
S42000TRM	2000/1400	10/26	5-20P/(6) 5-15R & (2) 5-20R	85.4 (38.8)
S43000TRM	3000/2100	6/15	L5-30P/(6) 5-15R & (1)L5-30R	89.8 (40.8)



Standby UPS Systems



Built-in protection against surges and spikes. RFI/EMI line noise filtering prevents interference (i.e. fans, motors, lights and radio transmissions) from affecting your computer. Protects against brownouts by switching to battery power when incoming voltage dips below 101 volts AV (178 volts on INT models). Up-front diagnostic LEDs and alarm advise user of operating conditions and battery status. Effective and efficient pulse width modulated (PWM) output provides maximized battery run time. Microprocessor control of on-board operations (including self-test on all models 450 VA and higher). Five second restart delay prevents damage to computer due to after-blackout rolling surges. Patented SoftStart™ eases startup from battery power without standard AC voltage (sags or surges). Network monitoring interface (BC Pro models only). BC Pro models work with cabling and PowerAlert software to support SNMP-2 and the unattended shutdown of any network operating system. Automatic Inverter Shutdown (BC Pro models only).



Standby UPS Systems (cont.)

Twenty seconds after your fileserver or workstation has performed an unattended shutdown, the BC Pro also powers itself down to save battery power and extend battery life. Twenty-five thousand dollar Ultimate Lifetime Insurance. Battery recharge rate: 4-6 hours. Transfer time (typical): 2-4 milliseconds. Levels of spike and noise suppression (spike suppression starts at voltages in excess of nominal peak line values):

- A. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 27,000 amps; 300 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- B. Clamping initiated instantaneously (0 ns) at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.
- C. Clamping initiated in less than 1 ns at 320 volts. Suppresses up to 6000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- D. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/ Noise Filt. Level	Surge/ Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship. Wght. (lbs)
			Half Load	Full Load						
BC Personal 200	200	140	28	10	A	300	2	7 ^{1/2} x 4 x 5 ^{1/2}	-	13
BC Personal 280	280	175	17	5	A	300	2	7 ^{1/2} x 4 x 5 ^{1/2}	-	12
BC Personal 420	420	295	17	5	A	300	2	9 ^{1/2} x 5 x 6 ^{1/2}	-	14.5
BC Personal 500	500	350	28	10	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	-	19
BC Internet 450	450	280	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	RJ11	17
BC Pro 450	450	280	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	14.5
BC Pro 550	550	345	24	8	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	19
BC Pro 675	675	425	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	20
BC Pro 850	850	570	21	6	B	400	4	11 x 7 x 9	Db9	26.5
BC Pro 1050	1050	705	23	7	B	400	6	10 x 6 ^{1/2} x 14	DB9	35
BC Pro 1400	1400	940	21	6	B	400	6	10 x 6 ^{1/2} x 14	Db9	41.5

Output Voltage: 230

Output Frequency: 50 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/ Noise Filt. Level	Surge/ Energy Rating (joules)	Recep.	Dimensions H x W x D (cm)	LAN Inter. Port	Ship Wght. (kg)
			Half Load	Full Load						
BC Personal INT 280	280	175	17	5	C	110	3	24 x 13 x 16	-	5.7
BC Personal INT 420	420	275	17	5	C	110	3	24 x 13 x 16	-	6.4
BC Pro INT 450	450	325	21	6	C	110	3	24 x 13 x 16	Db9	7.5
BC Pro INT 550	550	375	21	6	C	110	3	24 x 13 x 16	Db9	9.1
BC Pro INT 675	675	425	17	5	C	110	3	24 x 13 x 16	Db9	9.8
BC Pro INT 850	850	570	21	6	D	110	3	28 x 18 x 23	Db9	12.7
BC Pro INT 1050	1050	705	23	7	D	110	4	26 x 17 x 35	Db9	16.3
BC Pro INT 1400	1400	940	21	6	D	110	4	26 x 17 x 35	Db9	19.7

UPS



OmniPro Series Line Interactive UPS



Three levels of line interactive automatic voltage regulation (AVR) for complete brown-out/overvoltage protection without using battery power. Network monitoring interface. All models (except the 280) work with cabling and our PowerAlert software to support SNMP-2 and automatic unattended shutdown of any network operating system. Advanced microprocessor control of all on-board operations. Self-test control feature. Models 280-675 minitower design offers smallest footprint of any UPS to blend easily with any desktop workstation. Low battery/battery replace and voltage correction LED. Models 850 and larger feature a UPS overload indicator LED. RFI/EMI line noise filtering prevents interference (i.e. fans, motors, lights and radio transmissions) from affecting your computer. Five second restart delay prevents damage to computer due to after-blackout rolling surges. Patented SoftStart™ eases start-up from battery power without substandard AC voltage (sags or surges). Continuous battery charging even during brownout conditions maintains full battery charge and prolongs battery life. Automatic Inverter Shutdown. Fifty-thousand dollar Ultimate Lifetime Insurance. Battery recharge rate: 4-6 hours. Transfer time (typical): 2-4 milliseconds. Levels of spike and noise suppression (spike suppression starts at voltages in excess of nominal peak line values):

- A. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6,000 volt spikes at current levels up to 27,000 amps; 300 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- B. Clamping initiated instantaneously (0 ns) at 180 volts. Suppresses up to 6,000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.
- C. Clamping initiated in less than 1 ns at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- D. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Output Voltage: 120, Output Frequency: 60 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (W)	Backup time (mins)		Surge/Noise Filt. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship Wght. (lbs)
			Half Load	Full Load						
OmniPro 280	280	175	17	5	A	300	2	9 ^{1/2} x 5 x 6 ^{1/2}	-	12
OmniPro 450	450	280	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	14.5
OmniPro 675	675	425	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	19.5
OmniPro 850	850	570	21	6	B	400	4	11 x 7 x 9	Db9	27
OmniPro 1050	1050	705	23	7	B	400	6	10 x 6 ^{1/2} x 14	Db9	36
OmniPro 1400	1400	940	21	6	B	400	6	10 x 6 ^{1/2} x 14	Db9	43

Output Voltage: 230
Output Frequency: 50 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (W)	Backup time (mins)		Surge/Noise Filt. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (cm)	LAN Inter. Port	Ship Wght. (kg.)
			Half Load	Full Load						
OmniPro INT 280	280	175	17	5	C	110	3	24 x 13 x 16	-	5.9
OmniPro INT 450	450	280	17	5	C	110	3	24 x 13 x 16	Db9	7.5
OmniPro INT 675	675	425	17	5	C	110	3	24 x 13 x 16	Db9	9.8
OmniPro INT 850	850	570	21	6	D	110	3	28 x 17 x 23	Db9	12.7
OmniPro INT 1050	1050	705	23	7	D	110	4	26 x 17 x 35	Db9	17.2
OmniPro INT 1400	1400	940	21	6	D	110	4	26 x 17 x 35	Db9	20.6



Network Pro Series Line Interactive UPS for Novell



Includes Tripp Lite PowerAlert software to monitor and control your Novell network. New graphic user interface for inquiry and reporting. Power monitoring with error reporting. User adjustable shutdown. Automatically boots server when utility power is restored. Pager notification of power failures. Voltage correction keeps you working through brownouts without using any battery power. Multiple levels of voltage correction to convert the widest range of voltages back to 120V. Front panel LEDs show power changes from utility to battery, incoming voltage being adjusted up or down and battery low/needs replacement. Network Pro 1050 and 1400 models have UPS overload LED. Front-mounted on-off switch and alarm mute/self-test switch. Fifty-thousand dollar Ultimate Lifetime Insurance. Battery recharge rate: 4-6 hours. Transfer time (typical): 2-4 milliseconds. Levels of spike and noise suppression (spike suppression starts at voltages in excess of nominal peak line values):

- A. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 27,000 amps; 300 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- B. Clamping initiated instantaneously (0 ns) at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Part Number	Out. Cap. (VA)	Out. Cap. (W)	Backup time (mins)		Surge/Noise Filt. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship Wght. (kg.)
			Half Load	Full Load						
NetworkPro 450	450	280	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	15
NetworkPro 675	675	425	17	5	A	300	4	9 ^{1/2} x 5 x 6 ^{1/2}	Db9	20
NetworkPro 1050	1050	705	23	7	B	400	6	10 x 6 ^{1/2} x 14	Db9	37
NetworkPro 1400	1400	940	21	6	B	400	6	10 x 6 ^{1/2} x 14	Db9	44

SMART Series Intelligent Line Interactive UPS



Advanced microprocessor control of on-board communications and network operations via its RS-232 LAN port. Uses PowerAlert PLUS to monitor power across the network and control automatic unattended shutdown of any server or PC on the network. Four levels of line interactive voltage correction for complete brownout/overvoltage protection without using battery power. Up-front diagnostic LEDs and alarm alert user to various operating conditions and battery status. Built-in protection against surges and spikes. RFI/EMI line noise filtering prevents interference (i.e. fans, motors, lights and radio transmissions) from affecting your computer. Continuous battery charging even during brownout conditions maintains full battery charge and prolongs battery life. Automatic inverter shutdown. Twenty seconds after your fileserver or workstation has performed an unattended shutdown, the UPS also powers itself down to save battery power and extend battery life. Five second restart delay prevents damage to computer due to after-blackout rolling surges. Built-in modem/fax surge protection on 850 and larger 120 volt models. Effective and efficient pulse width modulated (PWM) output - 38% more efficient than leading competitor's - design provides maximized battery run-times and cooler operation. Fifty-thousand Ultimate Lifetime Insurance. Battery recharge rate: 2-4 hours. Transfer time (typical): 2-4 milliseconds. (Models SMART 2000, 3000, INT 2200 and INT 3000: 3-6 milliseconds.)



SMART Series Intelligent Line Interactive UPS (cont.)

Levels of spike and noise suppression (spike suppression starts at voltages in excess of nominal peak line values):

- A. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 27,000 amps; 300 joules to surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- B. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 55 db @ 1 MHz.
- C. Clamping initiated instantaneously (0 ns) at 180 volts. Suppresses up to 6000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.
- D. Clamping initiated in less than 1 ns at 320 volts. Suppresses up to 6000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- E. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.
- F. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6000 volt spikes at current levels up to 36,000 amps; 440 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Output Voltage: 120
Output Frequency: 60 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/ Noise Filtr. Level	Surge/ Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship Wgt. (lbs)
			Half Load	Full Load						
SMART 280	280	175	17	5	A	300	4	11 x 7 x 9	Db9	16
SMART 450	450	280	17	5	A	300	4	11 x 7 x 9	Db9	19
SMART 675	675	425	17	5	A	300	4	11 x 7 x 9	Db9	28
SMART 850	850	570	21	6	B	400	6	11 x 7 x 9	Db9	37
SMART 1050	1050	705	23	7	C	400	6	10 x 6 ^{1/2} x 14	Db9	37.5
SMART 1400	1400	940	21	6	C	400	6	10 x 6 ^{1/2} x 14	Db9	48
SMART 2000	2000	1600	37	11	C	400	6	16 x 9 x 14	Db9	95
SMART 3000	3000	2400	23	7	C	400	8	16 x 9 x 14	Db9	109

Output Voltage: 230
Output Frequency: 50 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/ Noise Filtr. Level	Surge/ Energy Rating (joules)	Recep.	Dimensions H x W x D (cm)	LAN Inter. Port	Ship Wgt. (lbs)
			Half Load	Full Load						
SMART INT 280	280	175	17	5	D	110	3	28x17x23	Db9	7.7
SMART INT 450	450	280	17	5	D	110	3	28x17x23	Db9	9.1
SMART INT 675	675	425	17	5	D	110	3	28x17x23	Db9	13.6
SMART INT 850	850	570	21	6	D	110	3	28x17x23	Db9	17.5
SMART INT 1050	1050	705	23	7	E	110	5	26x17x35	Db9	17.5
SMART INT 1400	1400	940	21	6	E	110	5	26x17x35	Db9	22.7
SMART INT 2200	2200	1600	35	15	E	110	5	41x23x36	Db9	45.8
SMART INT 3000	3000	2400	23	7	F	440	8	41x23x36	Db9	49.5



Unison® Intelligent On-Line UPS Systems



Pure fill-time re-synthesized sine wave output. Continually monitored and controlled, Unison's AC output maintains its pure sine wave shape regardless of distorted utility input load, or battery charge level. Zero transfer time. No switching takes place to or from battery. Continuously regulated power. Exceptional blackout protection and continuous brownout operation, without battery power drain, down to 95 volts. Three to one crest factor. Supplies 300% of rated output to allow "cold start" of heavily configured computer systems. Advanced microprocessor control of on-board operations and network operations via its RS-232 LAN port. Uses PowerAlert PLUS to monitor power across the network and control automatic unattended shutdown of any server or PC on the network. Enhanced peripheral control function are available with the SNMP-2 adapter and RT-2 adapter. Up-front diagnostic LEDs and alarm alert user to various operating conditions and battery status. Spike and line noise (RFI/EMI) filtering prevents line noise interference (i.e. fans, motors, lights and radio transmissions) and spikes from affecting your computer. Meets or exceeds IEEE 587 categories A & B for surge suppression. Patented circuitry for the greatest load factor correction of any UPS. Allows for operation on "soft" AC lines (e.g. 15 amp circuit supplying less than 15 amps) providing simple plug-in installation without expensive site-rewiring (MPS Series.) Up to \$100,000 Ultimate Lifetime Insurance. Battery recharge rate: 2-4 hours. Surge energy rating: 600 joules. Transfer time (typical): 0 milliseconds. LAN interface port: Db9.

Output Voltage: 120
Output Frequency: 60 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Recep.	Dimensions H x W x D (inches)	Shipping Weight (lbs)	Ultimate Insurance Level
			Half Load	Full Load				
PS 450	450	300	17	5	4	10 x 6 ^{1/2} x 14	34	\$75,000
PS 700	750	500	21	6	4	10 x 6 ^{1/2} x 14	32.5	\$75,000
PS 1000	1050	700	17	5	6	10 x 6 ^{1/2} x 14	45	\$75,000
MPS 1400	1200	800	17	5	6	12 ^{1/4} x 8 x 22	63.5	\$100,000
MPS 2000	2000	1300	17	5	6	12 ^{1/4} x 8 x 22	70.5	\$100,000

SMART Series Rackmount and Extended Run UPS



Compact. Up-front controls and LEDs for more convenient access and operational information. Advanced microprocessor control of on-board and network operations via a RS-232 LAN port. Use PowerAlert PLUS to monitor power across the network and control automatic unattended shutdown of any rack-mounted servers. Enhanced peripheral control functions available with SNMP-2 adapters. Four levels of line interactive voltage correction for complete brownout/overvoltage protection without using battery power. Spike and line noise (RFI/EMI) filtering prevents line noise interference (i.e. fans, motors, lights and radio transmissions) and spikes from affecting your computer. UL listed and meet or exceed IEEE 587 categories A & B for surge suppression. Continuous battery charging (even during brownout conditions) maintains full battery charge and prolongs battery life. Automatic inverter shutdown. Twenty seconds after your fileserver or workstation has performed an unattended shutdown, the Smart Series UPS also powers itself down to save battery power and extend battery life. Five second restart delay prevents damage to computer due to after-blackout rolling surges. Built-in modem/fax surge protection on all 120 volt models.



SMART Series Rackmount and Extended Run UPS (cont.)



Effective and efficient pulse width modulated (PWM) output - 38% more efficient than leading competitor's design - provides maximized battery run times and cooler operation in racks. Battery recharge rate: 2-4 hours. (Models TE 300 and 700: 8 hours.) Transfer time (typical): 2-4 milliseconds. (Models SMART 2000 RM, SMART INT 2200 RM and 2200 RMXL, 2200 XL: 3-6 milliseconds. Models TE 300 and 700: 2 milliseconds.) SMART Series XL systems - receive all the intelligent network control power of the SMART Series, plus extended run-time from using additional battery packs. Simple plug-in battery packs extend run-time to 8 hours or more. TE and APS Series offer a variety of UPS systems for extended run-time applications. Rugged construction for use in any environment and are fully expandable for unlimited run-times. The TE Series features over-sized batteries in an attractive case are available in LAN-compatible models.

Levels of spike and noise suppression (spike suppression starts at voltages in excess of nominal peak line values):

- A. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6,000 volt spikes at current levels up to 27,000 amps; 300 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- B. Clamping initiated in less than 1 ns at 180 volts. Suppresses up to 6,000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 55 db @ 1 MHz.
- C. Clamping initiated instantaneously (0 ns) at 180 volts. Suppresses up to 6,000 volt spikes at current levels up to 36,000 amps; 400 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.
- D. Clamping initiated in less than 1 ns at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 40 db @ 1 MHz.
- E. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 9,000 amps; 110 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Output Voltage: 120
Output Frequency: 60 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/Noise Filtr. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship Wght. (lbs)
			Half Load	Full Load						
SMART 850 RM	850	570	23	8	B	400	8	5 ¹⁴ x 19 x 10 ³⁴	Db9	41
SMART 1400 RM	1400	940	26	10	C	400	8	5 ¹⁴ x 19 x 10 ³⁴	Db9	53
SMART 2000 RM	2000	1600	27	11	C	400	8	8 ³⁴ x 19 x 10 ³⁴	Db9	90
SMART 2000 RMXL	2000	1600	28	12	C	400	8	8 ³⁴ x 19 x 10 ³⁴	Db9	97
SMART 1250 XL	1250	900	26	10	C	400	6	14 ¹² x 8 x 14	Db9	83
SMART 2000 XL	2000	1600	28	12	C	400	6	14 ¹² x 8 x 14	Db9	94
TE 300	300	200	86	37	A	300	4	6 ¹² x 5 ¹⁴ x 14	-	26
TE 700	700	450	83	35	B	400	4	8 ¹² x 6 ³⁴ x 17	-	39
APS 400	480	400	Back-up time/recharge rate based upon size of customer supplied 12 volt battery bank				2	7 x 7 x 10	-	16
APS 750	900	750					2	7 x 7 x 10	-	20
APS 1250	1500	1250					2	6 ¹² x 8 ¹² x 12	-	39



SMART Series Rackmount and Extended Run UPS (cont.)

Output Voltage: 230
Output Frequency: 50 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/Noise Filtr. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (cm)	LAN Inter. Port	Ship Wght. (lbs)
			Half Load	Full Load						
SMART INT 850 RM	850	570	23	8	D	110	4	13.2 x 48 x 27.4	Db9	14.7
SMART INT 1400 RM	1400	940	26	10	E	110	4	13.2 x 48 x 27.4	Db9	36
SMART INT 2200 RM	2200	1600	29	13	E	110	4	22.2 x 48 x 27.4	Db9	40.9
SMART INT 2200 RMXL	2200	1750	29	13	E	110	4	22.2 x 48 x 27.4	Db9	44.9
SMART INT 1250 XL	1250	900	85	24	E	110	4	41 x 23 x 36	Db9	21.8
SMART INT 2200 XL	2200	1750	29	13	E	110	6	41 x 23 x 36	Db9	41
APS INT 400	480	400	Back-up time/recharge rate based upon size of customer supplied 12 volt battery bank				2	17.8 x 17.8 x 25.4	-	8
APS INT 750	900	750					2	17.8 x 17.8 x 25.4	-	9.8
APS INT 2150	1500	1250					2	16.5 x 21.6 x 30.5	-	19.1

Accessories:

Part Number	Description	Dimensions H x W x D (in)	Shipping Wght. (lbs)
BP-24V33	External battery packs for Smart XL Series (contains two 33 amp hour batteries)	8 ³⁴ x 11 ¹² x 13	66
BPRM	Rackmount adapter for BP-24V33 battery packs	8 ³⁴ x 19 x 13 ¹²	7
BP-260	Battery case (with cables), holds two 12 volt 55 amp hour batteries (not included)	10 ¹² x 10 ¹² x 17 ¹⁴	15
98-121	External 12 volt 60 amp hour battery, fits in BP-260 case	9 x 6 ³⁴ x 10 ¹⁴	43

Universal and Country Specific Adapters



Designed for use with Tripp Lite INT (220/240V) UPS models, these universal adapter and multiple outlet strips provide convenient outlets to suit international electrical systems. The universal adapters fit into any NEMA 5-15R or IEC-320 receptacle and accept most worldwide plug configurations. Adapter strips plug into the IEC-320 receptacles of our INT model UPS systems and are available for most worldwide outlet configurations.

Part Number	Cord	Plugs Into	Outlets
UniPlug	-	NEMA 5-15R	1 universal outlet - suits most plug configurations
UniPlug INT	-	IEC-320	1 universal outlet - suits most plug configurations
16-1344T	1.5 m	IEC-320	4 British BS 1363
16-1345T	1.5 m	IEC-320	6 French/Belgian CEE 7/7
16-1346T	1.5 m	IEC-320	6 German CEE 7/4



SMART DataCenter Intelligent Network UPS Systems

SMART DataCenter 3000



Separately fused multiple outlet banks in a variety of plug configurations allow total flexibility at installation time. Four LAN ports for simultaneous multiple server support (one intelligent RS-232 Db9 and three standard Db9 interface ports.) DIN-3 port for remote on-off switching (RT-2). Modular design: Smart DataCenter 3000 - power module and one battery pack. Smart DataCenter 5000 - power module and two battery packs. Optional battery packs can be added to extend back-up time up to eight hours or more. Maintenance/static bypass switch allows battery packs to be hot-swapped with no system downtime. Also allows Automatic Voltage Regulation, surge and spike protection and 120 volt outputs to operate while maintenance is performed on the DataCenter power module. Seventy-five thousand dollar Ultimate Lifetime Insurance. Battery recharge rate: 2-4 hours. Transfer time (typical): 3-5 milliseconds. Levels of spike and noise suppression: (spike suppression starts at voltages in excess of nominal peak line values). All models tested to IEEE 587 category A & B specifications.

A. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 45,000 amps; 530 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

B. Clamping initiated instantaneously (0 ns) at 320 volts. Suppresses up to 6,000 volt spikes at current levels up to 27,000 amps; 330 joules total surge energy. Full time EMI/RFI suppression, with attenuation exceeding 80 db @ 1 MHz.

Output Voltage: 120/208/240

Output Frequency: 60 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/Noise Filtr. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (inches)	LAN Inter. Port	Ship Wght. (lbs)
			Half Load	Full Load						
SMART DataCenter 3000	3000	2100	28	11	A	530	12/2	23 x 8 x 22	4 Db9	171.5
SMART DataCenter 5000	5000	3500	41	17	A	530	12/2	31 x 8 x 22	4 Db9	279

Output Voltage: 220/240

Output Frequency: 50 Hz

Part Number	Out. Cap. (VA)	Out. Cap. (Watts)	Backup time (mins)		Surge/Noise Filtr. Level	Surge/Energy Rating (joules)	Recep.	Dimensions H x W x D (cm)	LAN Inter. Port	Ship Wght. (lbs)
			Half Load	Full Load						
SMART DataCenter INT 3000	3000	2100	28	11	B	440	8	56 x 20 x 56	4 Db9	76.4
SMART DataCenter INT 5000	5000	3500	41	17	B	440	8	79 x 20 x 56	4 Db9	130.7



PowerAlert PLUS

- 75-0101 PowerAlert PLUS software for Novell
- 75-0102 PowerAlert PLUS software for UNIX
- 75-0103 PowerAlert Advisor UPS monitoring software for DOS
- 75-0104 PowerAlert PLUS software for OS/2 LAN Server and WARP
- 75-0105 PowerAlert PLUS software for Windows and Windows NT
- 75-0109 UPS Node Manager Software for HP OpenView
- 75-0012 PowerAlert PLUS software for HP-UX on 4 mm DAT



PowerAlert PLUS provides an exclusive master network error log for at-a-glance tracking of power conditions and helps you display your power history with a built-in graphing utility. When power fails, PowerAlert PLUS provides an orderly automatic shutdown of your network operating system to save your data and equipment. Master Log receives alarms from every network UPS - basic alarms from all Tripp Lite Pro UPS models and extensive alarms from Smart UPS models and pools them for easy review of your entire network. Software allows the network manager to customize specific alarm setpoints for any UPS. When reached, they will trigger an entry in the Master Log, tracking power problems to their source. Pull-down menus allow easy access to the operating information of any UPS on the network, including: input voltage conditions; percentage of UPS load capacity; percentage of battery capacity; battery charge conditions; output voltage and frequency; operating temperature; UPS location/identification data; and scheduled self-test dates and times.