

SP UPS *Tower model*

600VA~5kVA

- Line-interactive design
- Fully digitized microprocessor control
- Auto Voltage Regulation – AVR
- Pure sinewave output
- Energy saving function (UPS sleep mode)
- Cold start function (DC power on)
- Lightning and surge protection
- Short circuit and overload protection
- Network/Tel/Modem/Fax spike protection
- EMI/RFI noise filter
- Advanced Battery Management (ABM technology)
- Hot-swappable battery replacement by users
- Automatic charge when UPS is off
- Extended back up time by adding external battery packs
- Power status LED or LCD display
- History record of power failure events
- Site wiring fault warning
- Smart RS-232/USB and dry contact communication interface
- SNMP management capability*
- Smart power management software
- Scheduled shutdown and reboot

* For optional features



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UPS SYSTEMS

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POWER PROTECTION PARTNER**

SP Tower Model Series		SP-600	SP-800	SP-1k	SP-1250	SP-1500	SP-2k	SP-2500	SP-3k	SP-3500	SP-5k
Output power with $\cos \phi=0.67$		600VA	800VA	1000VA	1250VA	1500VA	2000VA	2500VA	3000VA	3500VA	5000VA
		402W	536W	670W	838W	1005W	1340W	1675W	2010W	2345W	3350W
Input	Nominal Input Voltage	160V - 280V, 1Ø2Wires (adjustable to 150V/294 via UPS software driver)									
	Frequency	50 or 60 Hz, +/- 10% auto sensing									
Output	Voltage (on battery)	Pure sinewave at 220V +/- 1%, 1Ø2Wires (adjustable to 220V,230V, or 240V via software driver)									
	Frequency (on battery)	50 or 60 Hz, +/- 0.1%									
	Automatic voltage regulation	Booster / Fader									
Protection & Filtering	Spike protection	320 Joules, 2ms									
	Unit input	Fuse for models < 1250VA, breaker for models > 1500VA									
	EMI/RFI filter	10dB at 0.15MHz, 50dB at 30 MHz									
	Overload protection	UPS automatic shutdown if overload exceeds 110% of nominal at 120 seconds and 130% at 30 seconds									
	Transfer time	2 milliseconds (typical), including detection timer									
	Short circuit	UPS output cut off immediately using input fuse (or breaker) protection									
	10 Base-T Cable port	Yes									
System Display / Warning	LED Indications	Indicate line, back up, overload, replace battery, boost & buck AVR, battery capacity, load									
	LCD Indications	Line, bypass, inverter, back up, fault, battery capacity, I/P frequency, O/P frequency, inside temperature, fault status, load									
	Battery back up	Slow beeping sound (about 0.25Hz)									
	Battery low	Rapid beeping sound (about 1.00Hz)									
	Overload	Continuous beeping sound									
Battery	Type	Hot-swappable, sealed, maintenance-free lead acid, with 3-5 years lifetime									
	DC Voltage	12VDC	24VDC	36VDC	48VDC						72VDC
	Typical recharge time	4 hours (up to 90% of full capacity)									
	Protection	Automatic self-test & discharge protection, replace battery indicator									
	Back Up Time (min)	12-25	12-25	16-25	15-23	25-35	20-30	16-25	15-23	12-22	12-25
Communication	Dry contact	Sends AC failure and battery low signal, and receives shutdown signal from computer									
	RS-232 or USB	Detect Battery Low, schedule UPS On/Off, AC input/output power status display									
	SNMP (optional)	Monitoring capabilities in SNMP based networks									
	Compatibility	Novell, SNMP, Windows 95/98/ME/2000/XP/2003									
Physical	Input inlet	IEC 320 power inlet									
	Receptacles	IEC 320 female appliance coupler (220V) or optional country-specific receptacles									
	Dimensions WxDxH mm (inches)	97 x 320 x 135 (3.8"x12.5"x5.3")	140 x 436 x 210 (5.5"x17.2"x8.3")	170 x 450 x 226 (6.7" x 17.7" X 8.9")						170 x 450 x 678 (6.7"x17.7"x26.7")	
	Net Weight kg (lb)	6.9 (15.2)	7.4 (16.3)	15.5 (34.1)	16.8 (36.9)	25 (55.0)	30.0 (66.0)	33.0 (72.6)	19.5 (43.0)	20.5 (45.1)	60.0 (132)
Environment	Ambient operation	3500 meters max. elevation, 0-95% humidity non-condensing, 0-48°C									
	Audible noise	<40dBA (1 meter from surface) for units < then 1500 VA									
		<42dBA (1 meter from surface) for units > then 1500 VA									
	Storage conditions	15,000 meters max. elevation									
Standards & Certifications	Safety	EN 50091-1-1/EN 60950 (RD), IEC 60950									
	Electromagnetic compatibility	EN 50091-2, EN 50022/B, IEC 62040-2, IEC 6100-3-2, IEC 6100-3-3									
	Design, production & services	ISO 9001									
	Environment	ISO 14001 certified factory									
	Marking & Certifications	CE, TUV, GC-Mark									

OUTPUT RECEPTACLE OPTIONS

