

SPRING RACK 500-3000VA

Uninterruptible Power Supply

Spring

The SPRING series includes Tower, Rack and Dual (tower and rack) models from 500VA to 3000VA and uses sinewave digital technology. The SPRING range, with its advanced communications and connectivity options, is the ideal solution for the most demanding of customers looking for superior protection and versatility. SPRING is the best protection for network devices, rack mounted servers, conventional rack-mounted or tower servers, network storage systems.

Very High Protection

The Automatic Voltage Regulation provides stabilisation from brownouts, sag and surge voltages without making use of the batteries. Less frequent usage of the batteries means that they will be fully charged when really needed and last longer. EMI filters then provide further protection from spikes and transients. When the mains power supply fails, the load is powered by the inverter and receives a true SINEWAVE supply for maximum power continuity and reliability. The UPS also incorporates a protection for PC and network, telephone line/modem connections (RJ45-RJ11).

High Availability

Powershare output socket provides the load-shedding of the least critical load to maximise the back up time of the most critical

servers. Hot Swappable battery from the front of the UPS allows easy and no-risks maintenance of the UPS. Additional Battery Box and extended charging current are available in Spring 2200RT and 3000RT for very long back up time applications. Predictive battery testing to spot potential battery deterioration and failure. Deep discharge protection to reduce overall battery aging.

Versatility

Spring Dual (DVD1500, 2200 and 3000) can be placed directly onto the floor or mounted in 19" rack mount cabinets. The front panel digital display can be easily pulled out and rotated to suit the installation format. Spring R and RT versions includes Emergency Power Off switch, which allows to shutdown the output power in case of emergency situations. Cold start function enables Spring to start up when power network is not available.

Advance Communication

- Advanced, multi-platform communication for all operating systems and network environments: Watch&Save 3000 monitoring and shut-down software included, with SNMP agent, for Windows 95, 98, NT 4.0, Me, 2000, 2003, XP, Mac OS 9.x, X, Linux, Novell and many other popular operating systems
- USB or RS232 serial port (selectable)
- Slot-in SNMP network adapter card



LCD display provides information concerning alarms, status and measure of the major electrical parameters of input, output and battery.

Applications

Personal computer, small computer networks, Local Area Networks (LAN), workstations, servers, EPOS (Electronic Point Of Sales) system.

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INPUT	S 500R		S 800R		S 1100R		S 1500RT	
Voltage	230V							
Voltage range without battery contribution	160V ±3%; 294V ±3%							
Frequency	50/60Hz autoselection							
Accepted frequency	±5%							
Input phases	1							
BATTERIES	S 500R		S 800R		S 1100R		S 1500RT	
Type	Lead, open vase acid and VRLA AGM / GEL ; NiCd							
Battery blocks	6V/9Ah						12V/7Ah	
Batteries number	2		3		4			
Recharge time	less than 6 hours at 90%							
OUTPUT	S 500R		S 800R		S 1100R		S 1500RT	
Rated power	500 VA		800 VA		1100 VA		1500 VA	
Active power	350W		540W		740W		1050W	
Phases number	1							
Waveform	Pure sinewave							
Rated voltage (on battery opration)	230V changeable by software at 200/208/220/240V							
Rated voltage (on mains operation)	230 (±5%)							
Frequency	50/60Hz autoselection							
Overload	>110% for 3 minutes; >150% 800 msec.							
Output sockets	3 IEC 320 (10A) + 1 IEC 320 (10A) Powershare						7 IEC 320 (10A) + 1 IEC 320 (10A) Powershare	
SYSTEM	S 500R		S 800R		S 1100R		S 1500RT	
Transfer time	4 msec. typical; 6 msec. max.							
AC/AC efficiency	98%							
Noise	< 50dbA							
Operating temperature	0°C ÷ 40°C							
Relative humidity	< 90%							
Safety compliance	EN 62040-1-1 and Directives 73/23/EC, 93/68/EC							
EMC conformance	EN 62040-2 and Directives 2004/108/EC							
Protections	Excessive discharge of batteries-overcurrent-short circuit-overvoltage-undervoltage-thermal							
Net/telephone line protection	RJ45/RJ11 filtered socket							
Communication	USB, RS232, Communication expansion slot, E.P.O.							
Colour	RAL 7024 (dark grey)							
Technology	Line Interactive							
Weight (kg)	12 Kg		13 Kg		15 Kg		29 Kg	
Dimensions (WxDxH) mm	19'x460x1U mm						19'x582x2U mm	
DATA	S 500R		S 800R		S 1100R		S 1500RT	
Back up time at full load (min)	6 min. min.							
Installation	Tower							
Configuration	Single Unit							
OPTIONS	S 500R		S 800R		S 1100R		S 1500RT	
Battery cabinets for longer runtimes	Not available							

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LCD-based remote control panel	yes			
Communication software 'professional' version	yes			
OPTIONS	S 500R	S 800R	S 1100R	S 1500RT
MultiCom 351	X	X	X	X
MultiCom 352	X	X	X	X
MultiCom 301	X	X	X	X
MultiCom 302	X	X	X	X
NetMan 101 Plus	X	X	X	X
NetMan 102 Plus	X	X	X	X
MultiCom 362	X	X	X	X
MultiCom 372	X	X	X	X
MultiCom 382	X	X	X	X
Multi I/O	X	X	X	X
IRMS Multi-Switch	X	X	X	X
AS/400 interface kit	X	X	X	X
External by-pass cabinet rack 16A	X	X	X	X
Profibus DP Gateway	X	X	X	X

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INPUT		S 2200RT	S 3000RT
Voltage		230V	
Voltage range without battery contribution		160V $\pm 3\%$; 294V $\pm 3\%$	
Frequency		50/60Hz autoselection	
Accepted frequency		$\pm 5\%$	
Input phases		1	
BATTERIES		S 2200RT	S 3000RT
Type		Lead, open vase acid and VRLA AGM / GEL ; NiCd	
Battery blocks		12V/5Ah	
Batteries number		8	
Recharge time		less than 6 hours at 90%	
OUTPUT		S 2200RT	S 3000RT
Rated power		2200 VA	3000 VA
Active power		1540W	2100W
Phases number		1	
Waveform		Pure sinewave	
Rated voltage (on battery opration)		230V changeable by software at 200/208/220/240V	
Rated voltage (on mains operation)		230 ($\pm 5\%$)	
Frequency		50/60Hz autoselection	
Overload		>110% for 3 minutes; >150% 800 msec.	
Output sockets		1 IEC 320 (16A) + 7 IEC 320 (10A) + 1 IEC 320 (10A) Powershare	
SYSTEM		S 2200RT	S 3000RT
Transfer time		4 msec. typical; 6 msec. max.	
AC/AC efficiency		98%	
Noise		< 50dbA	
Operating temperature		0°C ÷ 40°C	
Relative humidity		< 90%	
Safety compliance		EN 62040-1-1 and Directives 73/23/EC, 93/68/EC	
EMC conformance		EN 62040-2 and Directives 2004/108/EC	
Protections		Excessive discharge of batteries-overcurrent-short circuit-overvoltage-undervoltage-thermal	
Net/telephone line protection		RJ45/RJ11 filtered socket	
Communication		USB, RS232, Communication expansion slot, E.P.O.	
Colour		RAL 7024 (dark grey)	
Technology		Line Interactive	
Weight (kg)		31 Kg	32 Kg
Dimensions (WxDxH) mm		19'x582x2U mm	
DATA		S 2200RT	S 3000RT
Back up time at full load (min)		6 min. min.	
Installation		Tower	
Configuration		Single Unit	
OPTIONS		S 2200RT	S 3000RT
Battery cabinets for longer runtimes		yes	

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OPTIONS	S 2200RT	S 3000RT
MultiCom 351	X	X
MultiCom 352	X	X
MultiCom 301	X	X
MultiCom 302	X	X
NetMan 101 Plus	X	X
NetMan 102 Plus	X	X
MultiCom 362	X	X
MultiCom 372	X	X
MultiCom 382	X	X
Multi I/O	X	X
IRMS Multi-Switch	X	X
AS/400 interface kit	X	X
External by-pass cabinet rack 16A	X	X
Profibus DP Gateway	X	X