



Uninterruptible Power Systems & Power Conversion Products

SMP Series™ SBS 500VA, 700VA & 1kVA

- High Performance Line-Interactive SBS Design
- Microprocessor Control
- Wide Input Voltage Window
- True Sinewave Output
- Superior Output Voltage Regulation
- Two-Stage Buck and Boost AVR
- Advanced LCD Display
- RS-232 Communications/Contact Closure Interface
- Compact & Lightweight
- UPSILON® Monitoring & Shutdown Software



The Falcon® Advantage

Falcon® Electric has supplied high reliability, On-line UPS products to the U.S. Government for use in Mission-Critical applications for over fifteen years. So, it's no surprise that our SMP Series™ Standby Backup Supply (SBS) has changed the standard of the Line-interactive market by setting an industry price/performance benchmark.

The SMP protects your file servers, workstations, networking hubs, routers and switches. It also safeguards Point of Sale (POS) applications with back office systems, ATMs and telecommunications equipment from blackouts, voltage fluctuations and transient surges.

Unique Two-Stage Buck/Boost AVR

Falcon Electric's SMP Series features a two-stage Buck and Boost Automatic Voltage Regulation capability that allows for high-grade voltage regulation. This advanced technology keeps your systems and network devices working through brownouts and high voltage conditions, without draining valuable battery power. When low or high voltage is detected, the SMP adjusts it to ensure your equipment receives only safe, regulated power.

True Sinewave Output

The SMP Series SBS incorporates a robust Pulse Width Modulated (PWM) Inverter that delivers a true sinewave output waveform and assures compatibility with all sensitive loads.

Microprocessor Control and LCD Display

Our SMP Series SBS incorporates advanced microprocessor technology with a convenient front panel LCD status display. This provides immediate SBS and site power status without the need for externally-connected computers or workstations. Over twenty UPS statuses and conditions can be displayed.

Advanced Communications

An RS-232 port is also provided in the event remote shutdown or monitoring is required. UPSILON® shutdown software is provided for this purpose and supports MS Windows® 95, 98, NT, 2000, 2000 Server, ME, XP, Novell Netware® 5 & 6, LINUX and FreeBSD. UNIX versions may be purchased separately. An optional external SNMP/HTTP agent device is also sold separately, allowing the SBS to be connected directly to any Ethernet LAN or WAN.

Surge Suppression and Noise Filtering

Advanced surge suppression prevents catastrophic hardware damage and extends system life, while EMI/RFI filtering prevents electrical noise from affecting operation of connected loads.

SMP Series™ SBS

500VA, 700VA & 1kVA

Model Number	SMP500-1C	SMP500-2C	SMP700-1C	SMP700-2C	SMP1.0K-1C	SMP1.0K-2C
Nominal VA	500		700		1000	

Electrical Input

Nominal AC Voltage	120V	230V	120V	230V	120V	230V
Current-Amps	5	2.5	7	3.5	10	5
AC Voltage Window	-20% to +22%					
Frequency	50/60 Hz (Auto-Tracking)					
Frequency Range	47 – 63Hz					

Electrical Output

Watts	350	350	490	490	650	650
Nominal AC Voltage	120V	230V	120V	230V	120V	230V
Frequency	50/60 Hz (Auto Tracking)					
On Line Voltage Regulation	± 5%					
On Battery Voltage Regulation	± 3%					
Waveform	True Sinewave					
Surge Protection	125 Joules MOV					
Unit Protection	Short Circuit, Overload & Over Temperature					
Efficiency (Typical) AC to DC	97%					

Battery

DC Voltage	12V		24V		24V	
Type	12V, 9AH x 1 Lead Acid Maintenance-Free		12V, 7AH x 2 Lead Acid Maintenance-Free		12V, 9AH x 2 Lead Acid Maintenance-Free	
Back Up Time @ Full Load	3.5 Minutes		5 Minutes		4.5 Minutes	
@ 1/2 Load	11 Minutes		12 Minutes		11 Minutes	
Recharge Time	8 Hours to 90%		5 Hours to 90%			

Battery times are approximate.

Transfer Time

Bypass to Inverter	Black-out, 3ms / Brown-out, 0ms					
Inverter to Bypass	0ms					

Electrical Connections

Input	6' Cord with 5-15P	6' Cord with Schuko Plug	6' Cord with 5-15P	6' Cord with Schuko Plug	6' Cord with 5-15P	6' Cord with Schuko Plug
Output	(3) 5-15R	(3) IEC 320	(3) 5-15R	(3) IEC 320	(3) 5-15R	(3) IEC 320

Environmental

Operating Temperature	0° C - 40° C (32° F to 104° F)					
Altitude	7,000 Feet					
Humidity	10% to 95% Non – Condensing					
Cooling	Low Velocity Forced Air Fans					
Audible Noise @ 1 meter	< 45dBA					

Controls and Indicators

Control	One Main Control Button – UPS On/Off, Self Test, Reset & Silence Alarms					
Selection Control	Two LCD Metering Scroll Function Select Buttons					
LCD Display	AC Input Voltage, AC Output Voltage, Output Frequency, DC Battery Voltage, Internal UPS Temperature, Timer – Minutes to Shutdown, Hours to Restart, Battery – Remaining Battery Time					
LCD Operational Symbols	Overload, Load Level, UPS is Loaded, Normal Mode, Buck Mode, Boost Mode, Timer Enabled, High Temperature, Fan Off, Alarm Off, UPS Fault, Battery Low, Battery Level					
Audible Alarms	Low Battery, Defective Battery, Over Load, Over Temperature, AC Out of Range					
Communications	RS-232 Serial Port and Contact Closure Signal interface (Bundled UPSilon 2000 Software)					

Mechanical

Dimensions H x W x D	7.9 x 7.1 x 14.2 (200 x 180 x 360)					
Inches (mm)						
Weight lb. (kg)	24.3 (11)		33.1 (15)		33.1 (15)	
Agency Listing	-1 Models: UL1778, CUL, FCC Class A; -2 Models: CE					

©2003 Falcon® Electric, Inc. All rights reserved. Falcon® and the Falcon Electric logo are registered trademarks of Falcon Electric, Inc. All other brand names and trademarks are the property of their respective owners.

The information and specifications stated in this document are subject to change without notice.

MD44034-LCD-D 08-05-03



Falcon Electric, Inc. - 5106 Azusa Canyon Rd. - Irwindale, CA 91706 - 800.842.6940 Fax 626.962.7720

www.falconups.com - email: sales@falconups.com