



# Uninterruptible Power Systems & Power Conversion Products

## SUP Series™ SBS

700VA & 1kVA

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



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### 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 SUP Series™ Standby Backup Supply (SBS) has changed the standard of the Line-interactive market by setting an industry price/performance benchmark.

The SUP 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 Universal Input Voltage

The SUP is the ideal solution for the international traveler requiring voltage conversion. The SUP Series SBS has the unique ability to operate from either 120Vac domestic or 230Vac international utility power, while providing 120Vac output power.

### Buck/Boost AVR

Falcon Electric's SUP Series features Buck and Boost Automatic Voltage Regulation. This 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 SUP adjusts it to ensure your equipment receives only safe, regulated power.

### True Sinewave Output

The SUP 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 SUP 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 SBS 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.

<b>Model Number</b>	<b>SUP700-1C</b>	<b>SUP1.0K-1C</b>
<b>Nominal VA</b>	700	1000

### Electrical Input

Nominal AC Voltage	120V or 230V	120V or 230V
Current-Amps	7 (120V), 3.6 (230V)	10 (120V), 5.2 (230V)
AC Voltage Window	-21% to 25%	
Frequency	50/60 Hz (Auto – Tracking)	
Frequency Range	47 – 63Hz	

UPS is designed for use on 120V domestic or 230V international utility power with neutral, line and ground connections.

### Electrical Output

Watts	490	650
Nominal AC Voltage	120V	120V
Frequency	50/60 Hz (Auto-Tracking)	
On-Line Voltage Regulation	± 8%	
On Battery Voltage Regulation	± 8% Typical (prior to low battery warning)	
Waveform	True Sinewave	
Surge Protection	125 Joules MOV	
Unit Protection	Short Circuit, Overload & Over Temperature	
Efficiency AC to AC (Typical)	97% (120Vac Input), 90% (230Vac Input)	

### Battery

DC Voltage	24V	24V
Type	12V, 7AH x 2 Lead Acid Maintenance-Free	12V, 9AH x 2 Lead Acid Maintenance-Free
Back Up Time @ Full Load	5 Minutes	4.5 Minutes
@ 1/2 Load	12 Minutes	11 Minutes
Recharge Time	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	1 - 6' Cord with 5-15P & 1 - 6' Cord with Schuko	1 - 6' Cord with 5 -15P & 1 - 6' Cord with Schuko
Output	(3) 5-15R	(3) 5-15R

### 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, Low Battery, Overload, Over Temperature, AC Out of Range
Communications	RS-232 Serial Port and Contact Closure Signal interface (Bundled UPSil on 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	33.1 (15)	33.1 (15)
lb. (kg)		
Agency Listing	UL1778, CUL, FCC Class A	

Note: The UPS will go to Green Mode whenever the output load is under 30 watts.

