



# SC On-line UPS

## 700VA to 3kVA, 120Vac Tower



### Next-Generation On-line Technology

The SC On-line UPS marks the next generation of Falcon's trustworthy, ultra-reliable UPS products.

The advanced SC On-line UPS family is specially designed to provide the highest level of power protection for IT equipment, telecommunications, servers, security systems and programmable logic controllers. The SC UPS utilizes a true double-conversion, on-line topology. Moreover, unlike standby and line-interactive designs, the SC acts as an electronic firewall between incoming "dirty" power sources and sensitive equipment.

### Advanced DSP Technology Makes The Difference

The SC UPS has been designed using advanced Digital Signal Processing (DSP) microprocessor technology. DSP technology yields a high level of internal UPS protection, control, performance and reliability.

### Wide Range Input Handles Damaging Input Transients

The SC UPS allows a wide range of both input voltages and frequencies. Consequently, sensitive computerized equipment is protected against harmful transients of "dirty" power sources.

### Programmable Frequency Converter

The SC UPS is easily programmable for use as a 50 Hz or 60 Hz frequency converter, making it the ideal choice for worldwide power applications.

### RS-232, USB and SNMP/HTTP UPS Management

With the supplied software, all models support unattended shutdown, UPS management, data logging and power diagnostic tools. The software supports Windows® and other major platforms.

An optional SNMP/HTTP agent board is also available.

### More Advanced Features:

- User-friendly LCD display – easy access to UPS status, battery and load levels and more.
- Programmable output receptacles – can be set to shed non-critical loads to reserve power for critical equipment during an outage.
- .9 output power factor correction
- Optional dry contact relay card

### Features & Benefits:

- \* **Advanced DSP technology**  
*- Enhances UPS performance, control, protection and reliability*
- \* **On-line UPS design**  
*- Prevents costly failures and ensures the highest reliability*
- \* **Wide input voltage range**  
*- Protects against damaging transients*
- \* **Hot-swap, 5-year rated batteries**  
*- Reduces battery replacements and costs*
- \* **External battery banks**  
*- Adds minutes to hours of backup time*
- \* **Certified cTUVus, FCC Part 15 Class A**  
*- Assures product safety*

Falcon Electric, Inc.  
5116 Azusa Canyon Road  
Irwindale, CA 91706  
Toll-Free: 800-842-6940  
Tel: 626-962-7770  
Fax: 626-962-6850  
Email: [sales@FalconUPS.com](mailto:sales@FalconUPS.com)  
[www.FalconUPS.com](http://www.FalconUPS.com)

# SC On-line UPS, 120Vac

# Tower 700VA to 3kVA

Model Number	SG700-1SC	SG1K-1SC	SG1.5K-1SC	SG2K-1SC	SG3K-1SC
Nominal VA	700	1000	1500	2000	3000
<b>Electrical Input</b>					
Nominal AC Voltage	100, 110, 115, 120Vac				
AC Voltage Range	90-150Vac				
Frequency	50/60 Hz $\pm$ 12% (Auto Tracking)				
Generator Input	Supported				
Power Factor Correction	0.99 at full linear load				
Surge Suppression	ANSI/IEEE C62.41				
Efficiency (Typ.)	>90%				
<b>Electrical Output</b>					
Watts @ Nominal Output Voltage	630	900	1350	1800	2700
AC Voltage (User Programmable)	100, 110, 115, 120Vac (sinewave)				
Nominal Frequency	50/60 Hz (Auto Tracking)				
Frequency (Synchronized)	3 Hz or 1 Hz (user programmable)				
Frequency at Battery Mode	50/60 Hz $\pm$ 0.2%				
Fixed Frequency (Programmable)	Fixed output frequency converter option (50 or 60 Hz), Output derates to 75% of maximum capacity				
Voltage Regulation	Utility Mode: $\pm$ 1%; Battery Mode: $\pm$ 2%				
Step Load Change	$\pm$ 5% for 10% to 90% load variation, recovery in 60ms				
Harmonic Distortion	< 3% at full linear load, < 6% at full non-linear load				
Overload	< 105% continuous; > 105-120% for 30 seconds and transfer to bypass; > 150% immediate transfer to bypass				
Crest Ratio	3:1				
Protection	Short Circuit				
<b>Battery</b> – For extended battery backup, contact factory					
DC Bus Voltage	24 Vdc		36 Vdc	48 Vdc	72 Vdc
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH				
Backup Time -Full/Half Load in Minutes	8 / 18	3 / 9			
Recharge Time	4 Hours to 90% capacity				
<b>Transfer Time</b>					
Line Fails/Recovers	Zero				
UPS to Bypass or Reverse	<4ms				
After Overload	Auto Transfer to Bypass				
<b>Electrical Connections</b>					
Input (6-foot line cord)	5-15P		5-20P	L5-30P	
Outlets (2 Programmable Outlets)	(6) 5-15R		(8) 5-20R	(8) 5-20R & (1) L5-30R	
<b>Environmental</b>					
Temperature Operational	0°C to 40°C (32°F to 104°F)				
Storage	-10°C to 50°C (14°F to 122°F)				
Humidity	10% to 90% Non-condensing				
Altitude	3300 Feet (1000 meters) without derating				
Cooling	Low Velocity Forced Air Fans				
Audible Noise @ 1 Meter	<55dBA				
<b>Controls &amp; Indicators</b>					
LCD Display	Normal, Battery, Bypass, Self-Test, Battery Fault, Site Wiring Fault, UPS Fault, Overload, and Load/Battery Level				
Audible Alarms	DC Mode, Low Battery, Overload, Fault Alarm				
Programmable Output Receptacles	2 programmable outlet groups: Continuous, Delay Control at Startup, On/Off Control at AC failure, Low Battery, UPS Overload or Manual Control				
Remote Emergency Power Off	Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)				
Communications (standard)	USB Port, RS-232, EPO, (UPS Bundled UPSilon Software)				
Communications (options)	SNMP/HTTP Agent & Peripherals; Dry Contact Closure Card				
<b>Mechanical</b>					
UPS Dimensions inches (mm)	10.2 x 6.1 x 15.9		11.4 x 6.8 x 17.4	12.6 x 7.6 x 21.8	
H x W x D	(259 x 155 x 404)		(289.5 x 172.7 x 442)	(320 x 193 x 553.7)	
Weight lbs. (kg)	27.2 (12.3)		33.1 (15)	47.4 (21.5)	67.3 (30.5)
Agency Approvals	(cTUVus), FCC Part 15 Class A				

