



SC On-line UPS

700VA to 3kVA, 120Vac Rackmount



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.
- Rack/Tower Configuration – use as a tower UPS by easily rotating the LCD display.
- .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

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SC On-line UPS, 120Vac

Rackmount 700VA to 3kVA

Model Number	SG700RM-1SC	SG1KRM-1SC	SG1.5KRM-1SC	SG2KRM-1SC	SG3KRM-1SC
Nominal VA	700	1000	1500	2000	3000
Electrical Input					
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%				
Electrical Output					
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				
Battery – 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				
Transfer Time					
Line Fails/Recovers	Zero				
UPS to Bypass or Reverse	< 4ms				
After Overload	Auto Transfer to Bypass				
Electrical Connections					
Input (6-foot line cord)	5-15P		5-20P	L5-30P	
Outlets (2 Programmable Outlets)	(6) 5-15R		(6) 5-20R	(6) 5-20R & (1) L5-30R	
Environmental					
Operating 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				
Controls & Indicators					
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				
Mechanical					
UPS Dimensions	inches (mm)	(2U) 3.5 x 17.3 x 16 (88.9 x 439.4 x 406.4)		(2U) 3.5 x 17.3 x 18.7 (88.9 x 439.4 x 475)	(2U) 3.5 x 17.3 x 23.7 (88.9 x 439.4 x 602)
Weight	lbs. (kg)	27.1 (12.3)	34.8 (15.8)	44.1 (20)	61 (28)
Agency Approvals	(cTUVus), FCC Part 15 Class A				

Typical SG1KRM-1SC Rear Panel Configuration



Typical SG3KRM-1SC Real Panel Configuration



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