



SC On-line UPS

1kVA to 3kVA, 230Vac 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
- * **CE Certification**
- 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
www.FalconUPS.com

SC On-line UPS, 230Vac

Rackmount 1kVA to 3kVA

Model Number	SG1KRM-2SC	SG2KRM-2SC	SG3KRM-2SC
Nominal VA	1000	2000	3000
Electrical Input			
Nominal AC Voltage	208, 220, 230, 240Vac		
AC Voltage Range	180-300Vac		
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	900	1800	2700
AC Voltage (User Programmable)	208, 220, 230 or 240Vac (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	36 Vdc	72 Vdc	
Battery Type	5-Year Rated, Maintenance-free, Sealed VRLA Batteries, 12Vdc, 9AH		
Backup Time -Full/Half Load in Minutes	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)	Schuko		
Outlets (2 Programmable Outlets)	(3) IEC320 C13	(6) IEC320 C13	(6) IEC320 C13 & (1) C19
Environmental			
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 23.7 (88.9 x 439.4 x 602)	
Weight lbs. (kg)	29.3 (13.3)	50.8 (23)	56.6 (25.7)
Agency Approvals	CE, (IEC/EN 62040-1) (EN 62040-2, EN 61000-3-2, EN 61000-3-3)		

Typical SG1KRM-2SC Rear Panel Configuration



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Falcon Electric, Inc. - 5116 Azusa Canyon Rd. - Irwindale, CA 91706 - 800-842-6940 Fax 626-962-6850

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