



## Uninterruptible Power Systems & Power Conversion Products

### SG Series™ UPS Plus® 1kVA to 3kVA 2U RackMount

- True Double Conversion On-Line Design
- Input Power Factor Correction
- Wide Input Voltage Window
- Pure Sinewave Output
- Precision Output Voltage Regulation
- Superior Brownout, Surge and Transient Protection
- Internal System Bypass
- Eliminates Generator Frequency & Voltage Drift
- Microprocessor Control & RS 232 Communications
- UPSILON Monitoring & Shutdown Software
- Optional Frequency Conversion
- Optional Extended Battery Packs & Chargers
- Optional Internal SNMP/HTTP Interface Card
- Two-Year Warranty



#### True Regenerative On-Line Design

As new and innovative technologies have become the backbone of today's businesses, maximum system availability is critical and downtime is more expensive than ever. Increasingly, businesses need a UPS that not only protects against blackouts, but also virtually eliminates more frequent and subtle power disturbances. Surges, sags, line noise and brownouts can disrupt proper operation of sensitive equipment. These disturbances may also create unnecessary production, service, and data recovery costs.

A True Regenerative On-Line UPS provides the highest level of protection against the widest spectrum of power problems. The incoming AC utility source is converted to a regulated DC voltage. From this DC voltage, a new AC voltage is regenerated, providing continuous, clean, tightly regulated power to your equipment. Line-interactive and Off-line designs leave your equipment connected directly to dirty utility power. They only provide minimal transient, voltage and backup protection. If your equipment operation is "Mission-Critical," a true double-conversion On-Line UPS, such as Falcon Electric's SG Series UPS Plus®, is the only clear choice.

#### Plus Input Power Factor Correction

All SG Series UPS Plus models include state-of-the-art Input Power Factor Correction. This greatly reduces the amount of current demanded from your building wiring system, yielding a highly efficient, "building friendly" UPS.

#### Plus Microprocessor Control

Falcon Electric's SG Series UPS incorporates advanced microprocessor technology. This technology makes possible a high level of internal UPS control and management. With the supplied UPSILON software, all SG Series UPS models support unattended shutdown, management, data logging, and self-diagnostics.

The software supports MS Windows® 95, 98, NT, 2000, 2000 Server, ME, XP, Novell Netware® 5 & 6, LINUX and FreeBSD. UPSILON for UNIX supports most popular UNIX platforms and OS versions.

#### Plus SNMP/HTTP Remote Management Support

Our SNMP/HTTP Agent board provides remote management and monitoring over any Ethernet LAN, WAN or the Internet utilizing a 10BaseT-type connection. The optional SNMP/HTTP agent installs via a port located on the back of every SG Series model.

#### Plus Extended Battery Ready

All SG Series models have continuous duty inverters and support the addition of optional external battery/charger packs. Whether your application requires a few additional minutes or hours, the SG Series is ready.

#### Plus Frequency Converter Capability

With a factory modification and the addition of an external input transformer, SG Series models can be configured for use as voltage and frequency converters. This makes the SG Series UPS Plus an ideal choice for worldwide power applications

# SG Series™ UPS PLUS® ~ RM 1kVA to 3kVA

Model Number	SG1KRM-1TU	SG1KRM-2TU	SG2KRM-1TU	SG2KRM-2TU	SG3KRM-1TU	SG3KRM-2TU
Nominal VA	1000		2000		3000	

Electrical Input						
Nominal AC Voltage	120V	230V	120V	230V	120V	230V
AC Voltage Range	87-140V	170-275V	87-140V	170-275V	87-140V	170-275V
Current-Amps	6.9	3.6	14.2	7.5	21.4	11.2
Frequency	50/60 Hz ± 5% (Auto-Tracking)					
Power Factor Correction	> 0.95					
Efficiency (Typical)	> 89%			> 86%		

Electrical Output						
Watts	700	700	1400	1400	2100	2100
AC Voltage (Switchable)	100V, 110V 115V, 120V	200V, 220V 230V, 240V	100V, 110V 115V, 120V	200V, 220V 230V, 240V	100V, 110V 115V, 120V	200V, 220V 230V, 240V
Frequency	50/60 Hz Auto Tracking					
Frequency Stability	± 0.3% (Battery Mode)					
Voltage Regulation	± 2%					
Step Load Change	± 7% for 100% load variation					
Harmonic Distortion	< 3% Linear Load, < 5% Non-Linear Load					
Overload	105% load for 50 Seconds					
Crest Ratio	3:1					

Battery (Battery times are approximate).						
DC Voltage	48V		72V		96V	
Type	12V, 7AH Sealed Lead Acid Maintenance-Free					
Back Up Time@ Full Load @ 1/2 Load	6 Minutes 19 Minutes		7 Minutes 20 Minutes		5.5 Minutes 15 Minutes	
Recharge Time	8 Hours to 90%					

Transfer Time	
Line Fails/Recovers	Zero
UPS to Bypass or Reverse	< 4ms
After Overload	Auto Transfer to UPS

Electrical Connections (Please contact the factory for other input/output options).						
Input	6' Cord with 5-15P	6' Cord with Schuko or 6-15P	6' Cord with L5-20P	6' Cord with Schuko or 6-15P	6' Cord with L5-30P	6' Cord with 6-20P
Output	(4) 5-15R	(4) IEC320	(4) 5-15R	(4) IEC 320	(4) 5-15R	(4) IEC 320

Environmental	
Operating Temperature	0° C - 40° C (32° F to 104° F)
Humidity	10% to 95% Non - Condensing
Altitude	7,000 Feet
Cooling	Low Velocity Forced Air Fans
Audible Noise @ 1 Meter	< 55dBA

Controls and Indicators	
LED	Line, Inverter, Battery Reserve, Load, Bypass, Alarm, Crest, Battery & Load Capacity Level
Audible Alarms	DC Mode, Low Battery, Over/Under Voltage, Over/Under Frequency, High Temp., Over Load, Fault Alarm
Communications	RS 232 Serial Port (Bundled UPSilon 2000 Software)

Mechanical						
UPS Module Dimensions	3.51 x 16.8 x 17.7 (89 x 426.7 x 449.5)		3.51 x 16.8 x 17.7 (89.0 x 426.7 x 449.5)			
Battery Pack Dimensions H x W x D ~ Inches (mm)	Internal to UPS Module		3.51 x 16.8 x 17.7 (89 x 426.7 x 449.5) External to UPS Module 2kVA & 3kVA are (2) cabinet configuration, Hot Swappable Batteries			
UPS Mod. Weight lbs. (kg)	39 (18)		29.0 (13)		29.0 (13)	
Battery Pck Wght lbs. (kg)	Internal		53.0 (24)		64.0 (29)	
Agency Listing	UL 1778, CUL, FCC Class A	CE available with Schuko plug only	UL 1778, CUL, FCC Class A	CE available w/ Schukoplug only	UL 1778, CUL, FCC Class A	CE available with Schuko plug only

Available Options	
Option A	60 Hz to 50 Hz Frequency Conversion
Option B	50 Hz to 60 Hz Frequency Conversion
Option C	SNMP/HTTP Network Card (Internal)
Option D	Standard Contact Closure Interface Card
Maintenance Bypass	Make-Before-Break External Wrap Around
External Battery Packs	Extended Run Time Battery Packs (minutes to hours) <span style="float: right;">Falcon-2004-03-11-SG-Plus-RM.pdf</span>
Fast Battery Charger	Fast Charger internal to the Extended Battery Pack Cabinet (Required for battery times 2 hours or more.)

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