

SSG-RP Series™ Ultra-Wide Temperature UPS 1kVA-3kVA, 120/230Vac Rack/Tower

harland simon





Ultra-Wide Temperature Range Protection to 65°C

UL and cUL Listed for operation up to 65°C, Falcon Electric's SSG-RP Series ultra-high temperature, double conversion, on-line UPS family is unique in the industry. It has been specifically designed to withstand temperature environments that would destroy other UPS products.

Designed to Provide Reliability and a Long Service Life

Falcon has carefully and precisely designed, selected components and optimized the cooling to create a UPS family that operates reliably in ultra-wide temperature environments of -30°C to 65°C (-22°F to 149°F). The batteries used inside the UPS were specifically selected due to their wide operational temperature range of -40°C to 80°C (-40°F to 176°F), far in excess of the maximum 65°C UPS specification. The batteries also have a 10-year service life rating when operated in a normal ambient temperature environment of 72°F.

LED Display & Microprocessor Control

The SSG Series offers instant access to vital UPS and power information through its feature-rich, easy-to-use LED MIMIC graphic display. Through the UPS's next-generation microprocessor technology, users can quickly perform various important functions including load segment control, monitoring and setting the output voltage.

Optional Frequency Converter Capability

Thanks to Falcon's flexible design platform, the SSG Series can be configured as a frequency converter for worldwide power applications. Accepting a 50/60Hz input and providing a fixed 60Hz or 50Hz output, the SSG Series supplies a tightly regulated output of ±2% and excellent extended brownout protection.

RS-232, USB & SNMP/HTTP UPS Management

With the supplied UPSilon® software, all models support unattended shutdown, UPS management, data logging and a power diagnostic tool. The software supports all Windows® platforms including Version 7 and Server Version 2008 R2, Novell NetWare® 5 & 6, LINUX and FreeBSD. UPSilon for UNIX is available at an additional cost and supports most popular UNIX platform and OS versions.

Falcon's optional SNMP/HTTP agent board provides IPv4 and IPv6 addressable remote management and monitoring over any 10/100 Ethernet LAN, WAN or the Internet. The agent board installs via a communications expansion slot located on the back of every SSG Series model. Client software is supplied that supports the shutdown of multiple workstations and servers via the network.

Remote Emergency Power Off (REPO)

The SSG-RP Series is equipped with an NFPA-70, NEC 645-11 compliant REPO interface assuring easy integration. Remote output receptacle control is an option to REPO, allowing the load segment outlets to be remotely controlled using a wire connected, remote switch.

Typical Rear Panel Configuration



Advanced Features:

- * True Double-Conversion On-line Sinewave Design
- * UL Listed for -30°C to +65°C Operation
- * Ultra-High Temperature User-Replaceable, Hot-Swappable, Battery Packs
- * LED Display with Advanced Monitoring for Easy UPS Management
- * Load Segment Control
- * Remote Emergency Power Off (Standard) or Remote Output Receptacle Control
- * Input Power Factor Correction
- * Wide Input Voltage Window
- * Precision Output Voltage Regulation
- * Extended Brownout, Surge & Transient Protection
- * Optional Extended Battery Banks & Chargers
- * UPSilon® UPS Monitoring & Management Software
- * RS-232C, USB & Optional SNMP/HTTP Agent

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SSG-RP Series™ Ultra-Wide Temperature UPS 1kVA - 3kVA

Nominal VA	de					
Nominal AC Voltage	de					
Nominal AC Voltage	de					
-2 Models 208, 220, 230, 240Vac AC Voltage Range -1 Models 80Vac to 138Vac -2 Models 160Vac to 276Vac Frequency 50/60 Hz ± 5% (Auto Tracking) Power Factor Correction Surge Suppression IEEE/ANSI C62.41 Efficiency (Typ.) Se8% Electrical Output Watts 700 1050 -1 Models 100, 110, 115 or 120Vac (sinewave) -2 Models 208, 220, 230 & 240Vac (sinewave) -2 Models 208, 220, 230 & 240Vac (sinewave) Frequency Frequency -2 Models 208, 220, 230 & 240Vac (sinewave) -2 Models 208, 220, 220 & 240Vac (sinewave	de					
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Line Fails/Recovers UPS to Bypass or Reverse After Overload Auto Transfer to UPS With Frequency Converter Options Electrical Connections						
UPS to Bypass or Reverse < 4ms After Overload Auto Transfer to UPS With Frequency Converter Options Bypass Disabled Electrical Connections						
After Overload Auto Transfer to UPS With Frequency Converter Options Bypass Disabled Electrical Connections						
With Frequency Converter Options Bypass Disabled Electrical Connections						
Electrical Connections						
	30D					
-2 6'Cord with Schuko 6'Cord wit						
Output -1 (8) 5-15R (4) 5-15R & (1) L5-20R -2 (8) IEC320 (8) IEC320						
Environmental						
Temperature Operational Storage -30°C to 65°C (-22°F to 149°F) (SSGKRP-3K-x, -30°C to 60°C) Note: with Lithium-Ion battery option -20° to +58°C all more above 25°C battery life will be reduced	zels ———					
· · · · · · · · · · · · · · · · · · ·	10% to 95% Non – Condensing					
	10,000 Feet (3000 meters) without derating					
Cooling Low Velocity Forced Air Fans						
Audible Noise (@ 1 Meter) <50dBA						
Controls & Indicators						
	MIMIC Graphical Display, Input/Output Load Percentage, Alarm, Inverter, Battery Level					
	DC Mode, Low Battery, Over/Under Voltage, Over/Under Frequency, High Temp., Over Load, Fault Alarm					
	Two programmable load segments, one continuous load segment					
	(Standard) Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel) (Optional) UPS Load Segment Controlled Output Receptacles can be turned off and on using a remote isolated switch contact.					
Communications USB Port, RS-232C Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)						
Mechanical Section 1975						
Dimensions inches (mm), H x W x D						
(2U) UPS Module (2U) 3.5 x 16.8 x 18.8 (88.5 x 426 x 477) (Industrial grade, rugged construction) SSGH-B Ten-Year VRLA Battery Module (2U) 3.5 x 16.8 x 18.8 (88.5 x 426 x 477) (Industrial grade, rugged construction)						
Weight Ib. (kg) (2U) UPS Module 28.7 (13.01) 35.24 (16) SSGH-B Ten-Year VRLA Battery Option 38.55 (17.49) 58.15 (26.4)						
Agency Approvals UL 1778, cUL, CE, FCC Class B						

SSG-RP Series™ Ultra-Wide Temperature UPS 1kVA - 3kVA

		SSG-RP UPS Opti	ons				
	Exter	nded VRLA Battery Ba	nk Options				
Extended Battery Bank Model Numbers	SSGH-B		SSGH-B1		SSGH-B2		
Battery Type		10-Year Rated, Mainte	nance-Free, Sealed VRLA Batteries, 12Vdc, 7AH				
Temperature Storage Opeartional	-30°C to 65°C (-22°F to 149°F) (Batteries stored at 50°C will require monthly recharging and have about a 1 year service life -30°C - 65°C (-22°F to 149°F) (When operated in temperatures above 25°C the battery service life will be reduced)						
Internal 2A Charger	No Yes						
Charger Input Voltage & Current	None		120Vac, 2.5A		208Vac to 240Vac, 2.5A		
Dimensions H x W x D inches (mm)	(2U) 3.5 x 16.8 x 18.8 (88.5 x 426 x 477)						
Weight lb. (kg)	Extened Battery Mo	odule = 58.15 (26.4)	Extended Battery Module = 60.15 (27.3)				
Extended VRLA Battery Runtimes (Note: Stated backup times are identical for SSGH-B, SSGH-B1, SSGH-B2 battery banks and are stated by UPS models below)							
UPS Model Numbers	SSG1KRP-1	SSG1.5KRP-1	SSG2KRP-1	SSG2.5KRP-1	SSG3KRP-1		
UT O MODEL NUMBERS	SSG1KRP-2	SSG1.5KRP-2	SSG2KRP-2	SSG2.5KRP-2	SSG3KRP-2		
Back Up Time by Model Full / Half Load UPS as Shipped One Extended BatteryBank Two Extended Battery Banks Three Extended Battery Banks Four Extended Battery Banks	700W / 350W 5 Minutes / 16 Minutes 33 Minutes / 75 Minutes 98 Minutes / 200 Minutes 135 Minutes / 260 Minutes 270 Minutes / 330 Minutes	1050W / 525W 12.5 Minutes / 28 Minutes 31 Minutes / 72 Minutes 50 Minutes / 120 Minutes 72 Minutes / 155 Minutes 100 Minutes / 210 Minutes	1400W / 700W 8.5 Minutes / 24 Minutes 23 Minutes / 50 Minutes 41 Minutes / 84 Minutes 55 Minutes / 118 Minutes 68 Minutes / 155 Minutes	1540W / 770W 5 Minutes / 18 Minutes 16 Minutes / 43 Minutes 28 Minutes / 70 Minutes 39 Minutes / 100 Minutes 55 Minutes / 130 Minutes	2100W / 1050W 3.5 Minutes / 11.5 Minutes 12.5 Minutes / 32 Minutes 23 Minutes,/ 51 Minutes 33 Minutes / 71 Minutes 45 Minutes / 97 Minutes		
Note: Back up time may vary depending on to	emperature, battery age and	condition.		•			
		Communications Op	tions				
Internal COM Board Model Numbers	UA88376-SSG		SNMP-SG-4		SNMP-MEGA-INT		
Туре	Internal Dry Relay Signal Interface		Internal Ultra Secure SNMP/HTTP		Internal Secure SNMP/HTTP Agent		
COM Interface	DB-9F		10/100 Ethernet (RJ45)				
External COM Board Model Numbers	UA88376-SSG-HW		SNMP-SG-5		SNMP-MEGA-EXT		
Туре	Internal Dry Relay Signal Interface		E	xternal Secure SNMP/HT	ГР		
COM Interface	Hardwire Te	rminal Block	10/100 Ethernet (RJ45)		10/100 Ethernet (RJ45)		
Common Specifications	Dry contact for: Utility Loss, Low Battery, Summary Alarm & On Bypass, Remote Shutdown while on battery		See SNMP/HTTP datsheets for these models		See SNMP/HTTP dat- sheets for these models		
	External	Maintenance Bypass	Switch Option				
Bypass Switch Model Number	MB2K-1, MB2K-2		MB3K-1, MB3K-2				
Model Selection	MB2K-1 used with SSG1KRP-1 to SSG2KRP-1 MB2K-2 used with SSG1KRP-2 to SSG2KRP-2		MB3K-1 used with SSG2.2KRP-1 to SSG3KRP-1 MB3K-2 used with SSG2.2KRP-2 to SSG3KRP-2				
Nominal Input/Output Voltage	-1, 120Vac and -2, 208Vac to 240Vac						
VA Rating	2000		3000				
Switch Type	Make-Before-Break						
Utility Input and Load Output Connection	Hardwire						
UPS Input Connection	-1, 5-15R, -2, 6-15R		-1, L5-30P, -2, L6-30P				
UPS Output Conneciton	-1, 6' Line Cord with 5-15P -2, 6' Line Cord with 6-15P		-1, 6' Line Cord with L5-30P -2, 6' Line Cord with L6-30P				
Dimensions H x W x D inches (mm)	9.9 x 12.6 x 5.3, (250.1 x 319.8 x 133.4)						
Weight lb. (kg)	11 lbs. (4.98 kg)						
Agency	UL, cUL Listed						