

Outdoor UPS Systems

with SSG-RP Industrial Ultra-wide Temp UPS, 1 to 3kVA





Key Advantages:

- Ready-to-install
 - Falcon's SSG-RP pre-configured NEMA 3R-rated UPS systems provide the ideal solution for outdoor and indoor use. The UPS enclosures are available in various sizes.
- -30°C to 65°C temperature range
 The SSG UPS is agency-certified
 (UL, cUL, CE) to operate reliably in ultra-wide temperature environments.

 All 120V models are also UL 508 listed.
- High-reliability: true on-line, industrial UPS

Tested and designed with robust components and materials, the SSG-RP assures reliable operation and a long service life in very demanding environments. It is a true on-line industrial UPS.

Extreme temperature batteries

The batteries used inside the UPS were specifically selected due to their wide operational range of -40°C to 80°C. They have a 10-year life at 25°C.

- Extended battery banks & other options
 The battery banks are easily expandable
 to provide minutes to hours of extra
 battery runtime. Other options include:
 environmental protection, remote UPS
 management, environment sensors, relay
 cards and much more.
- Falcon recognized for quality and reliability

Falcon Electric is a recognized authority in industrial UPS solutions. Our technical expertise assures you find the right solution – the first time.

Outdoor UPS Systems with SSG-RP Industrial UPS 1kVA to 3kVA

Model	SSG-RP Outdoor UPS System Model Number Determined by Configuration Ordered							
UPS Nominal VA	1000	1500	2000	2500	3000			
UPS Electrical Input	•			•				
Nominal AC Voltage	-1 Models: 120Vac, -2 Models 208, 220, 230, 240Vac							
AC Voltage Range	-1 Models: 80Vac to 138Vac, -2 Models 160 to 276Vac							
Frequency	50/60 Hz ± 5% (Auto Tracking)							
Power Factor Correction	>0.98 (at full load)							
Surge Suppression	IEEE/ANSI C62.41							
Efficiency (Typ.)	88%							
UPS Electrical Output								
Watts	700	1050	1400	1750	2100			
AC Voltage (User Programmable)	-1 Models: 100, 110, 115 or 120Vac (sinewave) -2 Models: 208, 220, 230 or 240Vac (sinewave)							
Frequency	50/60 Hz (Auto Tracking)							
Frequency Stability	± 0.3% (Battery Mode), ± 5% Synchronized to the input frequency in utility mode							
Voltage Regulation	± 2%							
Step Load Change	± 7% for 100% load variation, recovery in 5ms							
Harmonic Distortion	< 3% Linear Load, < 5% Non-Linear Load							
Overload	110% for 40 seconds, 125% for 18 seconds, 150% immediate							
Crest Ratio	3:1							
UPS Battery	r	T						
DC Bus Voltage	48Vdc x2 96Vdc							
Battery Pack Type	User-Replaceable, Hot-Swappable Pack Separate Enclosure from UPS Module							
Battery Type (Std. Battery Module)	8 each, ultra-wide temperature range (-40°C to 80°C), Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 5Ah							
Battery Runtimes (SSGH-B VRLA) Full/Half Load in Minutes	21 / 46	12.5 / 29	7.2 / 20.5	5 / 15.9	3.5 / 12.5			
Recharge Time	6 Hours to 90%							
UPS Transfer Time								
Line Fails/Recovers		Zero						
UPS to Bypass or Reverse	< 4ms							
After Overload		Auto Transfer to UPS						
System Electrical Connections								
Input	Hardwire Terminal Block							
Output	Hardwire Terminal Block							
System Environmental	System Environmental							
Temperature Operational Storage	-30°C to 65°C (-22°F to 149°F) (SSG3KRP-1 or -2, -30°C to 60°C) -30°C to 65°C (-22°F to 149°F) When operated in temperatures above 25°C, the battery service life will be reduced.							
Humidity	10% to 95% Non – Condensing							
Altitude	10,000 Feet (3,000 meters) without derating							
Cooling	Low Velocity Forced Air Fan (UPS Only)							
Audible Noise (@ 1 Meter)	<50dBA (UPS only)							
Conformal Coating on UPS Circuit Boards	Optional upon customer request at an added cost							
UPS Controls & Indicators								
LED Display	Line, Inverter, Battery, Bypass, Battery %, Load %, Alarm, Charger, Overload							
Audible Alarms	DC Mode, Low Battery, Over/Under Voltage, Over/Under Frequency, High Temp., Overload, Fault Alarm							
Load Segment Control	Two programmable load segments, one continuous load segment (Except on -2 models)							
Remote Emergency Power Off	(Standard) Meets NFPA 70, NEC 645-11 (REPO hardwire connections located on the UPS rear panel)							
Communications	USB Port, RS-232C Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)							
System Enclosure Mechanical								
Sample Dimensions inches (mm) HxWxD Note: Various sizes available-contact factory	$41.0 \times 24.0 \times 12.0 \text{ (1041 x 610 x 305)}$ (Rear mounted external mounting brackets extend beyond stated dimensional height and are supplied with the system)							
Sample Weight lb. (kg)	279 (127) 304 (138)							
Agency Approvals	-1 Models: UL 1778, UL 508, cUL, FCC Class B; -2 Models: CE, UL 1778, cUL NEMA 3R Enclosure - UL, cUL Listed							

Outdoor UPS Systems with SSG-RP Industrial UPS 1kVA to 3kVA

Outdoor UPS Sys	tems with	1 000-IXP	mustriai	UPU	TICV	A to SKVA		
	Extende	d Battery Bank Optio	ns - VRLA					
Extended Battery Bank Model Numbers	sso	ЭН-В	SSGH-B1			SSGH-B2		
Battery Type	10-Year Rated, Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 5Ah							
Temperature Operational	-30°C to 65°C (-22°F to 149°F) When operated in temperatures above 25°C, the battery service life will be reduced.							
Storage	-30°C to 65°C (-22°F to 149°F) Batteries stored at 50°C will require monthly recharging and have a reduced service life.							
Internal 2A Charger	١	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	x 19 x 20.2 (88.9 x 482.6 x 513.1)					
Weight lb. (kg)	Extended Battery Module = 58.2 (26.4) Extended Battery Module = 60.2 (27.3)							
For mounting dimensions, contact factory.		•						
(Note: Stated battery runtimes ar		led Battery Runtimes -B, SSGH-B1, SSGH-I		l are stated	l by UPS r	models below)		
UPS Model Numbers	SSG1KRP-1 SSG1KRP-2	SSG1.5KRP-1 SSG1.5KRP-2	SSG2KRP-1 SSG2KRP-2	SSG2.5 SSG2.5		SSG3KRP-1 SSG3KRP-2		
Battery Runtimes by Model Full/Half Load in Minutes	700W / 350W	1050W / 525W	1400W / 700W	1750W	/ 875W	2100W / 1050W		
UPS as Shipped	21 / 46	12.5 / 29	7.2 / 20.5	5/1		3.5 / 12.5		
One Extended Battery Bank	50 / 110	32 / 68	22 / 50	16.4 /		12.5 / 32		
Two Extended Battery Banks Three Extended Battery Banks	84 / 170 118 / 230	50.5 / 115 74 / 155	38 / 84 52 / 116	28.8 / 40.2		22.3 / 50.5 32 / 74		
Four Extended Battery Banks	150 / 290	98 / 200	69 / 150	53.2 /		42 / 98		
Note: Battery runtimes may vary depending of To extend battery runtime for many hours, 40,4	Ah battery bank/charger	option is available (5U ho						
	C:	ommunications Optic	ons					
Internal COM Board Model Numbers	UA88376-SSG	UA88376-SSG-HW	SNMP-SG-4 SI		SNMP-MEGA-INT			
Туре	Dry Relay Si	gnal Interface	Ultra Secure SNMP/HTTP Secure SNM		Secure SNMP/HTTP			
COM Interface	DB-9F	Hardwire Terminal Block	10/100 Ethernet (RJ45)					
Communications Specifications	Dry contact for: Utility Loss, Low Battery, Summary Alarm & On Bypass, Remote Shutdown while on Battery Internet-based remote UPS monitoring and management via SNMP/HTTP				•			
External COM Board Model Numbers			SNMP-SG-5			SNMP-MEGA-EXT		
Туре			Ultra Secure SNMP/HTTP		Secure SNMP/HTTP			
COM Interface			10/100 Ethernet (RJ45)					
Communications Specifications			Internet-based remote UPS monitoring and management via SNMP/HTTF					
	External Ma	intenance Bypass Sv	witch Option*					
Bypass Switch Model Numbers	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					used with SSG3KRP-1 used with SSG3KRP-2		
Nominal Input/Output Voltage	-1, 120Vac and -2, 208Vac to 240Vac							
VA Rating	2000		3000			3000		
Switch Type	Make-Before-Break							
Utility Input and Load Output Connection	Hardwire							
UPS Input Connection	Pre-Configured							
UPS Output Connection	Pre-Configured							
Dimensions H x W x D inches (mm)	9.9 x 12.6 x 5.3 (251.5 x 320 x 134.6)							



lb. (kg)

Weight

Agency Approvals

*Installation of Maintenance Bypass Switch requires the installation of one UA88376-SSG contact interface card inside the UPS communications card slot.

11 lbs. (5 kg)