



SSG-RP Industrial Ultra-wide Temp UPS

1kVA to 3kVA, 120/230Vac Rackmount



SSG-RP Industrial UPS Advantages:

- **-30°C to 65°C temperature range**
The SSG-RP UPS is **agency-certified** (UL, cUL, CE) to operate reliably in ultra-wide temperature environments. All 120V models are also UL 508 listed.
- **Long-life UPS: true on-line, industrial**
Tested and designed with robust components and materials, the SSG-RP assures reliable operation and a long service life in very demanding temperature 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**
The battery banks are easily expandable to provide minutes to hours of extra battery runtime.
- **Available options / Advanced communications**
NEMA 3R-rated enclosures, 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.

SSG-RP Industrial Ultra-wide Temp UPS

Rackmount 1kVA to 3kVA

Model Number	SSG1KRP-1 SSG1KRP-2	SSG1.5KRP-1 SSG1.5KRP-2	SSG2KRP-1 SSG2KRP-2	SSG2.5KRP-1 SSG2.5KRP-2	SSG3KRP-1 SSG3KRP-2	
Nominal VA	1000	1500	2000	2500	3000	
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%					
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					
Battery						
DC Bus Voltage (nominal)	48Vdc	96Vdc				
Battery Pack Type	Hot-Swappable Pack Separate Enclosure from the UPS Module, User-Replaceable					
Battery Type (Std. Battery Module)	4 or 8 each, wide temperature range (-40°C to 80°C), Maintenance-Free, Sealed VRLA, 12Vdc, 5Ah					
Battery Runtimes (SSGH-B VRLA) Full/Half Load in Minutes	10 / 16	12.5 / 29	7.2 / 20.5	5 / 15.9	3.5 / 12.5	
Recharge Time	6 Hours to 90%					
Transfer Time						
Line Fails/Recovers	Zero					
UPS to Bypass or Reverse	< 4ms					
After Overload	Auto Transfer to UPS					
Electrical Connections						
Input	-1 -2	6' Cord with 5-15P 6' Cord with Schuko	6' Cord with 5-15P 6' Cord with Schuko	6' Cord with 5-20P 6' Cord with Schuko	6' Cord with L5-30P 6' Cord with Schuko	6' Cord with L5-30P 6' Cord with Schuko
Output	-1 -2	(8) 5-15R (4) IEC320 C13 Outlets	(4) 5-15R & (1) L5-20R (4) IEC320 C13 Outlets	(4) 5-15R & (1) L5-30R (4) IEC320 C13 Outlets		
Environmental						
Temperature Operational and Storage	-30°C to 65°C (-22°F to 149°F) (SSG3KRP-1 or -2, -30°C to 60°C) Note: 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 Fans					
Heat Dissipation BTU/Hour	342	535	683	854	1071	
Audible Noise (@ 1 Meter)	<50dBA					
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 (or) Remote Output Receptacle Control	(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 - For mounting dimensions, contact factory.						
Dimensions H x W x D inches (mm) (2U) UPS Module	(2U) 3.5 x 19 x 20.8 (88.9 x 482.6 x 528.3)		(2U) 3.5 x 19 x 20.1 (88.9 x 482.6 x 510.5)			
SSGH-B Battery Module	(2U) 3.5 x 19 x 20.2 (88.9 x 482.6 x 513.1)					
Weight lb. (kg) (2U) UPS Module	31.9 (14.5)		35.3 (16)			
SSGH-B Battery Module	37.4 (17)		58.2 (26.4)			
Agency Approvals	-1 Models: UL 1778, UL 508, cUL, FCC Class B; -2 Models: CE, UL 1778, cUL					

SSG-RP UPS Options					
Extended Battery Bank Options - VRLA					
Extended Battery Bank Model Numbers	SSGH-B		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	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 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.					
Extended Battery Runtimes - VRLA					
(Note: Stated battery runtimes are identical for SSGH-B, SSGH-B1, SSGH-B2 battery banks and are stated by UPS models below)					
UPS Model Numbers	SSG1KRP-1 SSG1KRP-2	SSG1.5KRP-1 SSG1.5KRP-2	SSG2KRP-1 SSG2KRP-2	SSG2.5KRP-1 SSG2.5KRP-2	SSG3KRP-1 SSG3KRP-2
Battery Runtimes by Model	700W / 350W	1050W / 525W	1400W / 700W	1750W / 875W	2100W / 1050W
Full/Half Load in Minutes					
UPS as Shipped	21 / 46	12.5 / 29	7.2 / 20.5	5 / 15.9	3.5 / 12.5
One Extended Battery Bank	50 / 110	32 / 68	22 / 50	16.4 / 39.3	12.5 / 32
Two Extended Battery Banks	84 / 170	50.5 / 115	38 / 84	28.8 / 64.2	22.3 / 50.5
Three Extended Battery Banks	118 / 230	74 / 155	52 / 116	40.2 / 91	32 / 74
Four Extended Battery Banks	150 / 290	98 / 200	69 / 150	53.2 / 118.5	42 / 98
Note: Battery runtimes may vary depending on temperature, battery age and condition.					
To extend battery runtime for many hours, 40Ah battery bank/charger option is available (5U height). See datasheet.					
Communications Options					
Internal COM Board Model Numbers	UA88376-SSG	UA88376-SSG-HW	SNMP-SG-4	SNMP-MEGA-INT	
Type	Dry Relay Signal Interface		Ultra Secure SNMP/HTTP	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	
Type			Ultra Secure SNMP/HTTP	Secure SNMP/HTTP	
COM Interface			10/100 Ethernet (RJ45)		
Communications Specifications			Internet-based remote UPS monitoring and management via SNMP/HTTP		
External Maintenance Bypass Switch 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		MB3K-1 used with SSG2.5KRP-1 MB3K-2 used with SSG2.5KRP-2	MB3K-1 used with SSG3KRP-1 MB3K-2 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	L5-20R, L6-20R		L5-30R, L6-20R		
UPS Output Connection	-1	6' Line Cord with L5-20P	6' Line Cord with L5-30P		
	-2	6' Line Cord with L6-20P	6' Line Cord with L6-20P		
Dimensions H x W x D	inches (mm) 9.9 x 12.6 x 5.3 (251.5 x 320 x 134.6)				
Weight	lb. (kg.)		11 lbs. (5 kg)		
Agency Approvals	UL 1778, cUL				
*Note: Installation of MBS requires the installation of one UA88376-SSG contact interface card inside the UPS communications card slot.					

Typical SSG-RP UPS Rear Panel Configuration

SSG-RP UPS with Hot-Swappable Battery Pack

