

SSG Industrial Wide-temperature UPS 1.5kVA to 3kVA, 120/230Vac Rackmount



SSG Industrial UPS Advantages:

• -20°C to 55°C temperature range The SSG UPS is agency-certified (UL, cUL, CE) to operate reliably in demanding 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 assures reliable operation and a long service life in stressful environments. It is a true on-line industrial UPS.

12-year rated batteries cut service costs

The long-life batteries cut frequent battery replacements and maintenance costs. They have a 12-year life at 25°C and **4 years** at 50°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 is 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 Industrial Wide-temp UPS

Rackmount 1.5kVA to 3kVA

Model Number	SSG1.5KRM-1 SSG1.5KRM-2	SSG2.2KRM-1 SSG2.2KRM-2	SSG3KRM-1 SSG3KRM-2	
Nominal VA	1500	2200	3000	
Electrical Input				
Nominal AC Voltage	-1 Models: 120Vac, -2 Models: 208, 220, 230, 240Vac			
AC Voltage Range	-1 Models: 80-138Vac, -2 Models: 160-276Vac			
Frequency	50/60 Hz ± 5% (Auto Tracking)			
Power Factor Correction		>0.97 (at full load)		
Surge Suppression	IEEE/ANSI C62.41			
Efficiency (Typ.)	88%			
Electrical Output	•			
Watts	1050	1540	2100	
AC Voltage (User Programmable)	-1 Models: 100, 110, 115 or 120Vac (sine wave) -2 Models: 208, 220, 230 or 240Vac (sine wave)			
Frequency	50/60 Hz (Auto Tracking)			
Frequency Stability	\pm 0.3% (Battery Mode), \pm 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		0.1		
DC Bus Voltage (nominal)	48Vdc	06	Vdc	
Battery Pack Type				
	User-Replaceable, Hot-Swappable Pack Separate Enclosure from UPS Module (Internal Pack for 1.5kVA)			
Battery Type	12-Year Rated, Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 7Ah			
Battery Runtimes Full/Half Load in Minutes	6 / 18	10 / 27	6 / 18.9	
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 - For hardwired mo	odels, contact factory.			
Input -1	6' Cord with 5-15P Plug	6' Cord with 5-20P Plug	6' Cord with L5-30P Plug	
-2	6' Cord with Schuko Plug	6' Cord with Schuko Plug	6' Cord with Schuko Plug	
Output -1	(8) 5-15R	(4) 5-15R & (1) L5-20R	(4) 5-15R & (1) L5-30R	
-2	(4) IEC320 C13 Outlets	(4) IEC320 C13 Outlets	(4) IEC320 C13 Outlets	
 Environmental	(),	(1)	(1)	
Temperature Operational	-20°C to 55°C (-4°F to 131°F) When operated in temperatures above 25°C, the battery service life will be reduced.			
Storage	-20°C to 55°C (-4°F to 131°F) Batteries stored at 50°C will require monthly recharging and have a reduced service life.			
Humidity	10% to 95% Non – Condensing			
Altitude	10,000 Feet (3,000 meters) without derating			
Cooling		Low Velocity Forced Air Fan		
Heat Dissipation BTU/Hour	535	784	1071	
Audible Noise (@ 1 Meter)		<50dBA		
Controls & Indicators	·			
LCD Display	MIMIC Graphical Display, Input/Outr	out Voltage, Frequency, Load, Alarm, Progr	ammable settings & UPS state icons	
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)	(Standard) Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)			
Remote Output Receptacle Control Communications	(Optional) UPS Load Segment Controlled Output Receptacles can be turned off and on using a remote isolated switch contact. USB Port, RS-232C Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)			
Mechanical - For mounting dimensions, co				
UPS Dimensions H x W x D inches (mm)	(2U) 3.5 x 19 x 22.5 (88.9 x 482.6 x 571.5)	(2U) 3.5 x 19 x 21.9	(88.9 x 482.6 x 556.3)	
SSGR Battery Module	(None - Batteries inside UPS)	(2U) 3.5 x 19 x 21.3	(88.9 x 482.6 x 541)	
Weight Ib. (kg)	· · · ·	(2U) UPS Module = 32 (14.5)	(2U) UPS Module = 32 (14.5)	
12-Year VRLA Batteries	UPS with Internal batteries = 55 (24.9)		(2U) External Battery Module = 70.6 (32)	
Agency Approvals	-1 Models: UL 17	78, UL 508, cUL, FCC Class B; -2 Models:	CE, UL 1778, cUL	
Agency Approvals	-1 Models: UL 17	78, UL 508, cUL, FCC Class B; -2 Models:	CE, UL 1778, cUL	

SSG Industrial Wide-temp UPS

Rackmount 1.5kVA to 3kVA

	SSG UPS Options		
	Extended Battery Bank Optio	ns - VRLA	
Extended Battery Bank Model Numbers	SSGR	SSGR-1	SSGR-2
Battery Type	12-Year Rated, Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 7Ah		
Temperature Operational Storage	-20°C to 55°C (-4°F to 131°F) When operated in temperatures above 25°C, the battery service life will be reduced. -20°C to 55°C (-4°F to 131°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 21.3 (88.9 x 482.6 x 541)		
Weight Ib. (kg)	Extended Battery Module = 70.6 (32)	Extended Battery Module = 72.6 (32.9)	
For mounting dimensions, contact factory.		·	
	Extended Battery Runtimes are identical for SSGR, SSGR-1, SSGR-2	battery banks and are stated by	
UPS Model Numbers	SSG1.5KRM-1 SSG1.5KRM-2	SSG2.2KRM-1 SSG2.2KRM-2	SSG3KRM-1 SSG3KRM-2
Battery Runtimes by Model Full/Half Load in Minutes	1050W / 525W	1540W / 770W	2100W / 1050W
UPS as Shipped	6 / 18	10 / 27	6 / 18.9
One Extended Battery Bank	23.7 / 60.5	20.6 / 52	13 / 34.4
Two Extended Battery Banks	48.6 / 118	36.3 / 90	23.8 / 60.6
Three Extended Battery Banks	76.9 / 178	54 / 128.3	35.5 / 88.9
Four Extended Battery Banks	106 / 241	73 / 170	48.5 / 118.1
Note: Battery runtimes may vary depending on To extend battery runtime for many hours, 40A		eight). See datasheet.	
Lithium l	ron Phosphate (LiFePO ₄) Battery option	also available. See datasheet.	
	External Maintenance Bypass S	witch Option*	
Bypass Switch Model Numbers	MB2K-1, MB2K-2	MB3K-1, MB3K-2	
Model Selection	MB2K-1 used with SSG1.5KRM-1	MB3K-1 used with SSG2.2KRM-1	MB3K-1 used with SSG3KRM-
	MB2K-2 used with SSG1.5KRM-2	MB3K-2 used with SSG2.2KRM-2	MB3K-2 used with SSG3KRM-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 -1 -2	L5-20R L6-20R	L5-30R L6-20R	
UPS Output Connection -1 -2	6' Line Cord with L5-20P 6' Line Cord with L6-20P	6' Line Cord with L5-30P 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 Ib. (kg)	11 lbs. (5 kg)		
Agency Approvals	UL 1778, cUL		
*Note: Installation of Maintenance Bypass Sw	itch requires the installation of one UA88246 o	contact interface card inside the UPS	S communications card slot.

Typical SSG Rear Panel Configuration



SSG UPS with Hot-Swappable Battery Pack



© 2022 Falcon® Electric, Inc. All rights reserved. Falcon® and the Falcon Electric logo are registered trademarks of Falcon Electric, Inc. All other brand names and trademarks are the property of their respective owners. The information and specifications stated in this document are subject to change without notice. 10-2022

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