

SSG Industrial Wide-temperature UPS

1.5kVA to 3kVA, 120/230Vac Rack/Tower



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 – 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

Rack/Tower 1.5kVA to 3kVA

Model Number	SSG1.5KRM-1 SSG2.2KRM-1 SSG1.5KRM-2 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	± 0.3% (Battery Mo	ode), ± 5% Synchronized to the input frequency	ency in utility mode	
Voltage Regulation		± 2%		
Step Load Change	±	7% for 100% load variation, recovery in 5m	ns	
Harmonic Distortion		< 3% Linear Load, < 5% Non-Linear Load		
Overload	110% for	40 seconds, 125% for 18 seconds, 150% in	mmediate	
Crest Ratio		3:1		
Battery				
DC Bus Voltage (nominal)	48Vdc	96\	Vdc	
Battery Pack Type		able Pack Separate Enclosure from UPS Mo		
Battery Type		I, Maintenance-Free, Sealed VRLA Batterie		
Battery Runtimes	12 Todi Natio	, Maintenance i 100, Coaled VIVE (Batterio	0, 12 v d0, 17 d1	
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 -2	6' Cord with 5-15P Plug 6' Cord with Schuko Plug	6' Cord with 5-20P Plug 6' Cord with Schuko Plug	6' Cord with L5-30P Plug 6' Cord with Schuko Plug	
Output -1	(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	(1) 120020 010 04400	(1) 12020 0 10 041010	(1) 120020 010 044040	
Temperature Operational Storage	l '	en operated in temperatures above 25°C, the ies stored at 50°C will require monthly rechal	·	
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, Progra	ammable settings & UPS state icons	
Audible Alarms	MIMIC Graphical Display, Input/Output Voltage, Frequency, Load, Alarm, Programmable settings & UPS state icons 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)	, , , , , , , , , , , , , , , , , , ,	11 (REPO connections located on the UPS	· · ·	
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)			
	·	Special State / The Agent Board (OF	= Danaida Gr Gilori Gottware)	
Wechanical - For mounting dimensions, coupled by the UPS Dimensions H x W x D inches (mm)	mm) (2U) 3.5 x 19 x 22.5 (2U) 3.5 x 19 x 21.9 (88.9 x 482.6 x 556.3)		(88.9 x 482.6 x 556.3)	
SSGR Battery Module	(88.9 x 482.6 x 571.5) (None - Batteries inside UPS)	(2U) 3.5 x 19 x 21.3	(88.9 x 482.6 x 541)	
Weight Ib. (kg)	, i i i i i i i i i i i i i i i i i i i	(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 1778, UL 508, cUL, FCC Class B; -2 Models: CE, UL 1778, cUL			
5 · 7 FF · · · · · · ·		, , ,	, .,.,=	

SSG Industrial Wide-temp UPS

Rack/Tower 1.5kVA to 3kVA

SSG UPS Options							
Extended Battery Bank Options - 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 reduced20°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		Yes			
Charger Input Voltage & Cur	rrent	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	lb. (kg)	Extended Battery Module = 70.6 (32)	Extended Battery Module = 72.6 (32.9)				
For mounting dimensions,	, contact factory.						
		Extended Battery Runtimes -	VDI A				

Extended Battery Runtimes - VRLA

(Note: Stated battery runtimes are identical for SSGR, SSGR-1, SSGR-2 battery banks and are stated by UPS models below)

UPS Model Numbers	SSG1.5KRM-1 SSG1.5KRM-2	SSG2.2KRM-1 SSG2.2KRM-2	SSG3KRM-1 SSG3KRM-2
Battery Runtimes by Model	1050W / 525W	1540W / 770W	2100W / 1050W
Full/Half Load in Minutes			
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 temperature, battery age and condition.

To extend battery runtime for many hours, 40Ah battery bank/charger option is available (5U height). See datasheet.

Lithium Iron Phosphate (LiFePO₄) Battery option also available. See datasheet.

Lithium from Phosphate (LirePO ₄) battery option also available. See datasneet.						
Communications Options						
Internal COM Board Model Numbers	UA88376-SSG	UA88376-SSG-HW	SNMP-SG-4	SNMP-MEGA-INT		
Туре	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		
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/HTTP			
	External Maintenance Bypass Switch Option*					
Bypass Switch Model Numbers	MB2H	K-1, MB2K-2	MB3K-1, MB3K-2			
Model Selection	MB2K-1 used with SSG1.5KRM-1 MB2K-2 used with SSG1.5KRM-2		MB3K-1 used with SSG2.2KRM-1 MB3K-2 used with SSG2.2KRM-2	MB3K-1 used with SSG3KRM-1 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		L5-20R L6-20R	L5-30R L6-20R			
UPS Output Connection -1		ord with L5-20P ord 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					

Typical SSG Rear Panel Configuration

SSG UPS with Hot-Swappable Battery Pack







© 2019 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. 1-2019

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