



SSG Industrial Wide-temperature UPS

6kVA, 230Vac Rackmount



SSG Industrial UPS Advantages:

- **-20°C to 55°C temperature range**
The SSG 6kVA UPS is **agency-certified** (UL 1778, UL 508, cUL, CE) to operate reliably in demanding environments.
- **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, galvanic isolation transformer, 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.

Model Number		SSG6KRM-2
Nominal VA		6000
Electrical Input		
Nominal AC Voltage		208-240Vac
AC Voltage Range		176-276Vac
Frequency		50/60 Hz \pm 5% Auto Tracking (45-65Hz)
Power Factor Correction		>0.97 (at full load)
Surge Suppression		IEEE/ANSI C62.41
Efficiency (Typ.)		88%
Electrical Output		
Watts		4200
AC Voltage (User Programmable)		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		\pm 2%
Step Load Change		\pm 7% for 100% load variation, recovery in 5ms
Harmonic Distortion		< 3%
Overload		110% for 40 seconds, 125% for 18 seconds, 150% immediate
Crest Ratio		3:1
Battery		
DC Bus Voltage (nominal)		192Vdc
Battery Pack Type		User-Replaceable, Hot-Swappable Pack, Separate Enclosure from UPS Module
Battery Type		12-Year Rated, Maintenance-Free, Sealed VRLA Batteries, 12Vdc, 7Ah
Battery Runtimes Full/Half Load in Minutes		5 / 10
Recharge Time		4 Hours to 90%
Transfer Time		
Line Fails/Recovers		Zero
UPS to Bypass or Reverse		< 4ms
After Overload		Auto Transfer to UPS
Electrical Connections		
Input		Hardwire
Output		Hardwire
Environmental		
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.
Humidity		10% to 95% Non-condensing
Altitude		10,000 Feet (3,000 meters) without derating
Cooling		Low Velocity Forced Air Fan
Audible Noise (@ 1 Meter)		<50dBA
Heat Dissipation BTU/Hour		2457
Controls & Indicators		
LCD Display		MIMIC Graphical Display, Input/Output Voltage, Frequency, Load, Alarm, Programmable settings & UPS state icons
Audible Alarms		DC Mode, Low Battery, Over/Under Voltage, Over/Under Frequency, High Temp., Overload, Fault Alarm
Remote Emergency Power Off		Meets NFPA 70, NEC 645-11 (REPO connections located on the UPS rear panel)
Communications		RS-232C Serial Port, Optional SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)
Mechanical - For mounting dimensions, contact factory.		
UPS Dimensions H x W x D inches (mm)		7 x 19 x 21.8 (177.8 x 482.6 x 553.7)
SSGR Battery Module (each)		3.5 x 19 x 21.3 (88.9 x 482.6 x 541)
Weight lb. (kg)		(4U) UPS Module = 62.5 (28.3)
12-Year VRLA Batteries		2 Each (2U) External Battery Module = 70.6 (32) Total System Weight = 203.7 (92.4)
Agency Approvals		UL 1778, UL 508, cUL, CE, FCC Class A

SSG UPS Options			
Extended Battery Bank Options - VRLA			
Battery Bank Model Numbers	SSGR	SSGR-2	SSGB-1S40-5U-2
Battery Type	12-Year Rated, Maintenance-Free, Sealed VRLA, 12V, 7Ah Battery		Deep Cycle, Sealed VRLA, 12V, 40Ah
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.	
Internal Charger		No	Yes
Charger Input & Current	N/A	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)	(5U) 8.72 x 19 x 28 (222.3 x 482.6 x 711.2)
Weight	lb. (kg)	70.6 (32)	72.6 (32.9)
			270 (122.5)
Extended Battery Runtimes - VRLA			
Battery Bank Model Numbers	SSGR or SSGR-2		SSGB-1S40-5U-2
Full/Half Load in Minutes	4200W / 2100W		4200W / 2100W
UPS as Shipped	5 / 10		60 / 152
One Extended Battery Bank Pair	14 / 34.5		152 / 333
Two Extended Battery Bank Pairs	23 / 62.5		240 / 509
Three Extended Battery Bank Pairs	34 / 95.5		332 / 705
Four Extended Battery Bank Pairs	46 / 128.5		418 / 894
Five Extended Battery Bank Pairs	62 / 166.5		508 / 1083
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. Contact factory.			
Communications Options			
Internal COM Board Model Numbers	UA88376-SSG	UA88376-SSG-HW	SNMP-SG-4
Type	Dry Relay Signal Interface		Ultra Secure SNMP/HTTP
COM Interface	DB-9F	Hardwire Terminal Block	Secure SNMP/HTTP
Communications Specifications	Dry contact for: Utility Loss, Low Battery, Summary Alarm & On Bypass, Remote Shutdown while on Battery		10/100 Ethernet (RJ45)
			Internet-based remote UPS monitoring and management via SNMP/HTTP
External COM Board Model Numbers			SNMP-SG-5
Type			Secure SNMP/HTTP
COM Interface			10/100 Ethernet (RJ45)
Communications Specifications			Internet-based remote UPS monitoring and management via SNMP/HTTP
UPS Transformer Module			
Model Number	XM6KRM-2/2		
Nominal VA	6000		
Electrical Input			
Nominal AC Voltage & Frequency	208Vac or 240Vac; 50/60 Hz ± 5%		
Electrical Output			
Watts	4200		
AC Voltages & Frequency	User-configurable 208-240Vac or 240/120Vac Split-phase (Default); 50/60 Hz		
Electrical Connections			
Input & Output	Hardwire		
Environmental			
Temperature	Operational & Storage	-20°C to 55°C (-4°F to 131°F)	
Humidity & Altitude	10% to 95% Non-condensing; 10,000 Feet (3,000 meters) without derating		
Integral Maintenance Bypass			
Bypass Type / Control	Make-Before-Break / Manual Knob		
Mechanical			
Dimensions H x W x D	inches (mm)	(4U) 7 x 19 x 22.1 (177.8 x 482.6 x 561.3)	
Weight	lb. (kg)	118 (53.5 kg)	
Agency Approvals	UL 1778, UL 508, cUL		

Typical SSG6KRM-2 Rear Panel Configuration

