

SSG 6KVA INDUSTRIAL WIDE-TEMPERATURE UPS RACKMOUNT DATASHEET

Overview

Power you can trust: SSG industrial UPS for harsh environments. Long-life batteries reduce maintenance, scalable runtime, flexible enclosures and remote management to fit your deployment.

Key Advantages

- **Rugged performance:** The 6KVA UPS is UL/cUL/CE agency-certified that reliably operates in demanding environments from -20°C to $+55^{\circ}\text{C}$ temperature range.
- **Long-life UPS:** True on-line, industrial UPS. 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 battery cost savings:** 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.
- **Quality Engineering:** Falcon Electric is a recognized authority in developing reliable, quality industrial UPS solutions. Our technical expertise ensures you find the right solution the first time.



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Model Number		SSG 6kVA Industrial Wide-temperature UPS Rackmount
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		5 / 10
Full/Half Load in Minutes		
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

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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)		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.				
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			

