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 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.

ExLoc INSTRUMENTS
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SSG Industrial Wide-temp UPS — Rackmount 6kVA

Model Number	SSG6KRM-2
Nominal VA	6000
Electrical Input	
Nominal AC Voltage	208-240Vac
AC Voltage Range	176-276Vac
Frequency	50/60 Hz ± 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	± 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%
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	-20ºC to 55ºC (-4ºF to 131ºF) When operated in temperatures above 25ºC, the battery service life will be reduced. -20ºC to 55ºC (-4ºF to 131ºF) Batteries stored at 50ºC 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) Weight lb. (kg)	3.5 x 19 x 21.3 (88.9 x 482.6 x 541) (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	-20ºC to 55ºC (-4ºF to 131ºF) When operated in temperatures above 25ºC, the battery service life will be reduced.		
	Storage	-20ºC to 55ºC (-4ºF to 131ºF) Batteries stored at 50ºC 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.

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	

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	-20ºC to 55ºC (-4ºF to 131ºF)
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