

Lithium Iron Phosphate Battery – LiFePO₄

for SSG Industrial Wide-temp UPS, I.5 to 3kVA



Falcon's LiFePO₄ battery offers the latest advancements in technology. Each LiFePO₄ pack weighs 44% less than a lead-acid battery – with 3 to 4 times longer runtimes and a 10-year service life.

LiFePO₄ Battery Advantages:

- Very lightweight 44% less
 Each Falcon battery pack weighs 44% less than a lead-acid equivalent. This is ideal for applications with a weight/footprint requirement.
- 3 to 4 times longer runtimes

 The high-energy battery capacity means
 fewer battery packs and longer runtimes.
- Long service life: 10-years plus
 With 4 times more charge/discharge cycles, you cut battery replacements and service costs.

- Wide-temperature range
 Falcon's LiFePO4 battery can continually operate
 at -20° to 55°C without any performance
 degradation.
- Advanced safety
 Lithium Iron cathode material has no thermal runaway issues-unlike the previous generation of lithium-ion batteries.
- Eco-friendly
 Falcon's LiFePO4 battery is safe for the environment. It has no caustic materials or dangerous odors.





LiFePO₄ Battery for SSG UPS

Model Numbe	r	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 Mod	dels 120Vac, -2 Models 208, 220, 230, 240)Vac			
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 (Use	er Programmable)	-1 Models = 100, 110, 115 or 120Vac (sine wave) -2 Models = 208, 220, 230 or 240Vac (sine wave)					
Frequency							
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% Linear Load, < 5% Non-Linear Load					
Overload		110% for 40 seconds, 125% for 18 seconds, 150% immediate					
Crest Ratio			3:1				
Battery							
DC Bus Voltage (nominal))	48Vdc	96	SVdc			
Battery Pack Type	,		able Pack Separate Enclosure from UPS I				
Battery Type		' ''	Plus Rated, 51.2V, 11.1Ah (568.3Wh) Bat	,			
Backup Time		10 Tear	1 103 Nated, 51.2 v, 11.17 (1 (555.5 v) 1) Bal	licry i dok			
Full/Half/Quarter Load in I	Minutos	20 / 42 / 96	29 / 61 / 139	20 / 42 / 96			
Recharge Time	wiiiutes		11 Hours to 00%	l .			
Transfer Time		11 Hours to 90%					
			Zore				
Line Fails/Recovers		Zero					
UPS to Bypass or Reverse		< 4ms					
After Overload		Auto Transfer to UPS					
With Frequency Converte	-		Bypass Disabled				
Electrical Connections -				I			
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 -2	(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							
Temperature	Operational Storage	-20°C to 55°C (-4°F to 131°F) -20°C to 55°C (-4°F to 131°F)					
Humidity			10% to 95% Non – Condensing				
Altitude			10,000 Feet (3,000 meters) without derati	ng			
Cooling			Low Velocity Forced Air Fans				
Heat Dissipation	BTU/Hour	535	784	1071			
Audible Noise	(@ 1 Meter)		<50dBA				
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/l	Under Voltage, Over/Under Frequency, Hiç	gh 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		(Optional) UPS Load Segment Controlled Output Receptacles can be turned off and on using a remote isolated switch contact.					
Communications		USB Port, RS-232C Serial Po	ort, Optional SNMP/HTTP Agent Board (L	IPS Bundled UPSilon Software)			
Mechanical - For mount	ing dimensions, c	ontact factory.					
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 iside UPS)	(2U) 3.5 x 19 x 21.3 (88.9 x 482.6 x 541)				
Weight	lb. (kg)	UPS with Internal batteries = 41 (18.6)	(2U) UPS Module = 32 (14.5) (2U) External Battery Module = 49 (22.2)				





LiFePO₄ Battery for SSG UPS

SSG UPS Options								
		Extended LiFePO ₄ Battery Bar	nk Options					
Extended Battery Bank Model Numbers		SSGR	SSGR-1	SSGR-2				
Battery Type		10-Year Plus Rated, 51.2V, 11.1Ah (568.3Wh) Battery Pack						
Temperature	Operational Storage	-20°C to 55°C (-4°F to 131°F) -20°C to 55°C (-4°F to 131°F)						
Internal 2A Charger		No Yes		'es				
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	lb. (kg)	Extended Battery Module = 41 (18.6)	Extended Battery Module = 49 (22.2)					
For mounting dimensions,	contact factory.							
(Note: State	ed backup times	Extended LiFePO ₄ Battery R are identical for SSGR, SSGR-1, SSGR-2 b		UPS models below)				
UPS Model Numbers		SSG1.5KRM-1 SSG1.5KRM-2	SSG2.2KRM-1 SSG2.2KRM-2	SSG3KRM-1 SSG3KRM-2				
Backup Time by Model Full/Half/Quarter Load in Minutes UPS as Shipped One Extended Battery Bank Two Extended Battery Banks		1050W / 525W / 262.5W 20 / 42 / 96 60 / 126 / 288 100 / 210 / 480	1540W / 770W / 385W 29 / 61 / 139 58 / 122 / 278 N/A	2100W / 1050W / 525W 20 / 42 / 96 40 / 84 / 192 N/A				

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			
COM Interface			10/100 Ethernet (RJ45)				
Communications Specifications			Internet-based remote UPS monitoring and management via SNMP/HTTF				

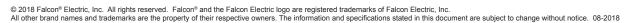
Typical SSG UPS Rear Panel Configuration



SSG UPS with Hot-Swappable Battery Pack











Awards for Falcon Electric's SSG UPS with LiFePO₄ Battery







Trusted for Over 30 Years



In partnership with

