

# SL LiFePO4 UPS 1-3KVA RACKMOUNT / TOWER DATASHEET

## Overview

Power more, worry less. Falcon's SL LiFePO<sub>4</sub> UPS delivers 3–4× runtime, fewer replacements, safer chemistry, up to 93% efficiency, 0.9 power factor, true on-line reliability, rack/tower flexibility, an intuitive display.



## Key Advantages

- **Lithium iron phosphate batteries:** The LiFePO<sub>4</sub> batteries cut frequent battery replacements and maintenance costs. The high-power density results in 3 to 4x longer runtimes in a small footprint.
- **Advanced safety:** Lithium iron cathode material has no thermal runaway issues. The LiFePO<sub>4</sub> battery is safe for the environment. It has no caustic materials or dangerous odors.
- **High efficiency:** The SL UPS is up to 93% efficient resulting in lower operational costs and energy consumption.
- **High power factor:** The SL LiFePO<sub>4</sub> UPS output is rated at 0.9 power factor which provides more power for critical equipment. Its on-line design also ensures high reliability.
- **Innovative design:** The rack or free-standing tower configuration makes installation easy. The SL has an easy-to-use display to monitor the UPS and battery status.
- **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.

# SL 1-3KVA LIFEPO4 UPS RACK / TOWER

## DATASHEET

Model Number	SL1KRM-1	SL2KRM-1	SL3KRM-1
Nominal VA	1000	2000	3000
<b>Electrical Input</b>			
Nominal AC Voltage	120Vac		
AC Voltage Range	Based on applied load percentage: 88-148Vac $\leq$ 100% load, 77-88Vac < 75% load, 60-77Vac < 50% load		
Frequency	50/60 Hz $\pm$ 10% (Auto Tracking)		
Power Factor Correction	$\geq$ 0.99		
Surge Suppression	IEC 61000-4-5		
Efficiency (Typ.)	91.7%	92.5%	
<b>Electrical Output</b>			
Watts	900	1800	2700
AC Voltage (User Programmable)	110/120Vac		
Frequency	50/60 Hz (Auto Tracking)		
Frequency Stability	$\pm$ 0.2% (Battery Mode), $\pm$ 10% Synchronized to the input frequency in online mode		
Voltage Regulation	$\pm$ 1%		
Step Load Change	$\pm$ 5% for 10% to 90% load variation, recovery in 60ms		
Harmonic Distortion	< 3% (Linear Load)		
Overload	101% - 115% for 60 seconds, 116% - 133% for 1 second, >134% for 200 milliseconds		
Crest Ratio	3:1		
<b>Battery</b>			
DC Bus Voltage (nominal)	24Vdc	48Vdc	72Vdc
Battery Pack Type	Internal, User-Replaceable Pack		
Battery Type	24Vdc, 10.2Ah, LiFePO4	48Vdc, 10.2Ah, LiFePO4	72Vdc, 10.2Ah, LiFePO4
Battery Runtimes	12 / 25		
Full/Half Load in Minutes			
Recharge Time	5 Hours to 90%		
<b>Transfer Time</b>			
Line Fails/Recovers	Zero		
UPS to Bypass or Reverse	< 4ms		
<b>Electrical Connections</b>			
Input	5-15P	5-20P	L5-30P
Output	(8) 5-15R	(6) 5-20R	(4) 5-20R & (1) L5-30R
<b>Environmental</b>			
Temperature	Operational Storage	0°C to 40°C (32°F to 104°F) Operates from 40°C to 60°C at 50% derated output power capacity. 0°C to 35°C (32°F to 95°F)	
Humidity		0% to 95% Non – Condensing	
Altitude		4921 Feet (1,500 meters) without derating	
Cooling		Low Velocity Forced Air Fans	
Heat Dissipation	BTU/Hour	278	498
Audible Noise	(@ 1 Meter)	<55dBA	
<b>Controls &amp; Indicators</b>			
LCD Display	Input / Output Voltage, Frequency, Load, Alarm, Battery Voltage, Settings & UPS state icons		
Audible Alarms	DC Mode, Low Battery, Overload, Over Temperature, Fault Alarm		
Remote Emergency Power Off	Normally open, 2 position terminal		
Communications	USB Port, SNMP/HTTP Agent Board (UPS Bundled UPSilon Software)		
<b>Mechanical</b>			
Dimensions	(2U) 3.5 x 17.2 x 16.5	(2U) 3.5 x 17.2 x 22.4	
H x W x D inches (mm)	(88 x 438 x 420)	(88 x 438 x 570)	
Weight	lb. (kg)	20 (9)	31 (14)
Agency Approvals	ETL Listed (Conforms to UL1778, Certified to CSA C22.2 No.107.3)		