



SL LiFePO₄ UPS - Lithium Iron Phosphate 1kVA to 3kVA Rack/Tower



SL LiFePO₄ UPS Advantages:

- **Lithium iron phosphate batteries**
The LiFePO₄ 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 LiFePO₄ 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 LiFePO₄ 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.
- **Falcon is recognized for quality and reliability**
Falcon Electric is a recognized authority in on-line UPS solutions. Our technical expertise assures you find the right solution—the first time.

SL LiFePO₄ UPS

Rack/Tower 1kVA to 3kVA

Model Number	SL1KRM-1	SL2KRM-1	SL3KRM-1
Nominal VA	1000	2000	3000
Electrical Input			
Nominal AC Voltage	120Vac		
AC Voltage Range	Based on applied load percentage: 88-148Vac ≤ 100% load, 77-88Vac < 75% load, 60-77Vac < 50% load		
Frequency	50/60 Hz ± 10% (Auto Tracking)		
Power Factor Correction	≥0.99		
Surge Suppression	IEC 61000-4-5		
Efficiency (Typ.)	91.7%	92.5%	
Electrical Output			
Watts	900	1800	2700
AC Voltage (User Programmable)	110/120Vac		
Frequency	50/60 Hz (Auto Tracking)		
Frequency Stability	± 0.2% (Battery Mode), ± 10% Synchronized to the input frequency in online mode		
Voltage Regulation	± 1%		
Step Load Change	± 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		
Battery			
DC Bus Voltage (nominal)	24Vdc	48Vdc	72Vdc
Battery Pack Type	Internal, User-Replaceable Pack		
Battery Type	24Vdc, 10.2Ah, LiFePO ₄	48Vdc, 10.2Ah, LiFePO ₄	72Vdc, 10.2Ah, LiFePO ₄
Battery Runtimes	12 / 25		
Full/Half Load in Minutes			
Recharge Time	5 Hours to 90%		
Transfer Time			
Line Fails/Recovers	Zero		
UPS to Bypass or Reverse	< 4ms		
Electrical Connections			
Input	5-15P	5-20P	L5-30P
Output	(8) 5-15R	(6) 5-20R	(4) 5-20R & (1) L5-30R
Environmental			
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	
Controls & Indicators			
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)		
Mechanical			
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)		

