

PSL-SC SERIES

RECHARGEABLE LITHIUM IRON PHOSPHATE BATTERIES

LiFePO4 Series Capable Lithium



Medical



Solar



Wind



Mobility



Data Center



Transport



Sport & Recreation



Utility

Combining proven lithium technology with an intelligent battery management system (BMS), the Power-Sonic PSL-SC series delivers a battery that lasts longer, weighs less, and charges faster than the equivalent lead acid battery.

At the heart of every Power-Sonic lithium battery is an intelligent BMS that monitors and reacts to multiple voltage, current, and temperature events to maximize performance, battery life, and safety.

With its advanced BMS design, the PSL-SC range can be connected in a series or parallel configuration of up to 6 batteries (model dependent) providing a solution for high voltage and high capacity applications.

POWERSONIC
TRUSTED BATTERY SOLUTIONS

power-sonic.com



PSL-SC SERIES

Rechargeable Lithium Iron Phosphate Batteries
PSL-SC – LiFePO4 Series Connection Series

APPROVALS

- UL 1642 cell certificate
- IEC 62133 cell certificate
- UN 38.3 certified
- ISO9001:2015 - Quality management systems



INTELLIGENT BATTERY MANAGEMENT SYSTEM

The PSL-SC Series comes with an intelligent battery management system which monitors current, voltage, and temperature during charge and discharge. This protects the battery from damaging events.

The BMS has a smart balancing function that controls all cell voltages in the battery. This ensures the cells are constantly at the same voltage level, optimizing battery capacity.

BATTERY FEATURES

- Compact and only 40% of the weight of comparable lead acid batteries
- Up to 10 times more cycles than lead acid batteries
- Faster charging and lower self-discharge
- Delivers twice the power of lead acid batteries, even high discharge rate, while maintaining high energy density.
- Super safe chemistry, reducing the risk of explosion or combustion due to high impact, over-charging, or short circuit situation
- Rugged impact resistant ABS case and cover
- UL94 Flammability Rated
- Battery Management System (BMS) controls the parameters of the battery to provide optimum safety and performance
- Enhanced BMS design balances the battery cells and protects against overcharging and discharging

SPECIFICATIONS

Model	Series Connection	Parallel Connection*	Nominal Voltage	Rated Capacity AH	Approx. Dimensions: inch (mm)						Approx. Weight		Terminal Type
					Length		Width		Height		lbs.	kgs.	
					inch	mm	inch	mm	inch	mm			
PSL-SC-1270	4	4	12.8	7.2	5.94	151	2.55	65	3.74	95	2.00	0.90	F2
PSL-SC-1290	4	4	12.8	9	5.94	151	2.55	65	3.74	95	2.64	1.20	F2
PSL-SC-12100	4	4	12.8	10	5.94	151	3.90	98	4.00	101	2.90	1.30	F2
PSL-SC-12120	4	4	12.8	12	5.94	151	3.87	98.5	3.74	95	3.52	1.60	F2
PSL-SC-12200	4	4	12.8	20	7.13	181	3.00	76	6.50	165	6.61	3.00	M6;NB1
PSL-SC-12350-GU1	4	4	12.8	35	7.80	197	6.50	165	6.70	171	9.70	4.40	M8
PSL-SC-12500	4	4	12.8	50	7.72	196	6.50	165	6.85	174	14.33	6.50	M8
PSL-SC-12750-G24	4	4	12.8	75	10.24	260	6.62	168	8.39	213	21.60	9.80	M8
PSL-SC-12800-G27	4	4	12.8	80	12.10	307	6.60	168	8.70	221	22.30	10.10	M8
PSL-SC-121000-G27	4	4	12.8	100	12.01	307	6.61	168	8.70	221	28.20	12.80	M8
PSL-SC-121000-G31	4	4	12.8	100	12.52	318	6.50	165	8.47	215	28.20	12.80	M8
PSL-SC-121250-G31	4	4	12.8	125	12.51	318	6.49	165	8.46	215	32.80	14.90	M8
PSL-SC-121500-G8D	4	4	12.8	150	20.48	520	10.55	268	8.98	228	44.53	20.20	M8
PSL-SC-122000-G8D	4	4	12.8	200	20.48	520	10.55	268	8.98	228	53.35	24.20	M8
PSL-SC-122600-G8D	4	4	12.8	260	20.48	520	10.55	268	8.98	228	71.21	32.30	M8
PSL-SC-123000-G8D	4	4	12.8	300	20.48	520	10.55	268	8.98	228	83.11	37.70	M8

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FURTHER INFORMATION

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.