

# PSL-SH SERIES

## RECHARGEABLE LITHIUM IRON PHOSPHATE BATTERIES

LiFePO<sub>4</sub> High Rate Range



Medical



Solar



Wind



Mobility



UPS



Security

Power Sonic's PSL-SH series has been specifically designed as a drop-in replacement to lead acid batteries. Combining proven lithium iron phosphate (LiFePO<sub>4</sub>) technology with an intelligent protection circuit module (PCM), the PSL-SH series delivers more power, faster charging and a longer life at less than half the weight of the equivalent lead acid battery.

With high efficiency and ultra-fast charging and discharging the PSL-SH series is ideal for industrial applications where a long-life span and quick charging capabilities are needed.

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

**POWERPS SONIC**  
TRUSTED BATTERY SOLUTIONS

[power-sonic.com](http://power-sonic.com)



## PSL-SH SERIES

Rechargeable Lithium Iron  
Phosphate Batteries  
High Rate LiFePO4 Series

### APPROVALS

- UL 1642 cell certificate
- IEC 62133 cell certificate
- UN 38.3 certified



### BATTERY FEATURES

- Super safe lithium iron phosphate (LiFePO4) chemistry reducing the risk of explosion or combustion due to high impact, over-charging or short circuit situation
- Protection Circuit Module (PCM) controls the parameters of the battery to provide optimum safety by protecting against over-charging and over-discharging
- PCM contains a balance circuit, optimizing battery performance
- Higher voltage capability through serial connections
- Delivers twice the power of lead acid batteries, even at high discharge rates, while maintaining constant power
- Faster charging and lower self-discharge
- Up to 10 times more cycles than lead acid batteries
- Compact and only 40% of the weight of comparable lead acid batteries
- Rugged impact resistant ABS case and cover flame retardant to UL94:V0

### PROTECTION CIRCUIT MODULE

The PSL-SH Series comes with a protection circuit module which monitors current and voltages during charge and discharge. This protects the battery from over-charge and over-discharge.

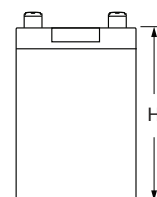
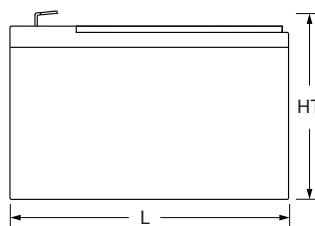
The PCM includes a balancing circuit that controls all cell voltages in the battery, making sure they are constantly at the same voltage level, optimizing battery capacity.

### DIMENSIONS: inch (mm)



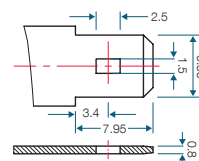
L: 5.95 (151)  
W: 2.56 (65)  
H: 3.70 (94)  
HT: 3.86 (98)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.



### TERMINALS: (mm)

F2: Quick disconnect tabs, 0.250" x 0.032" - Mate with AMP. INC FASTON "250" series



### SPECIFICATIONS

Model	Battery Management System	Series Connection*	Nominal Voltage	Rated Capacity	Dimensions: inch (mm)								Weight		Terminal Type Standard
					Length		Width		Height		Total Height				
					V	AH	inch	mm	inch	mm	inch	mm	inch	mm	
PSL-SH-1260	✓	✓	12.8V	6.2 AH	5.95	151	2.56	65	3.70	98	3.86	94	1.76	0.8	F2
PSL-SH-1270	✓	✓	12.8V	7.2 AH	5.95	151	2.56	65	3.70	98	3.86	94	1.98	0.9	F2
PSL-SH-12100	✓	✓	12.8V	10.8 AH	5.95	151	2.56	65	3.70	98	3.86	94	2.75	1.25	F2
PSL-SH-12110	✓	✓	12.8V	11.4 AH	5.95	151	2.56	65	3.70	98	3.86	94	2.87	1.3	F2

\*2 packs can be connected in series, parallel connection not recommended

#### GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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#### FURTHER INFORMATION

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