



LiFe SERIES

BATTERY CHARGERS

For Lithium Iron Phosphate Batteries

The LiFe Series of lithium battery chargers feature an intelligent 3-step charging logic, which can help charge even the deepest of discharged batteries. To maximize battery performance and battery life, the optimized charging technology makes the best possible use of the capacities of the batteries to be charged. With EN 60601-1, UL, CE and DOE compliance, these LiFePO4 battery chargers can be used in a variety of applications ranging from consumer electronics to medical devices.

CALCULATING RECHARGE TIME

Recharge time depends on the depth of the preceding discharge and the output current of the charger. To determine the approximate recharge time of a fully discharged battery, divide the battery's amp. hrs. by the rated output current of the charger and multiply the resulting number of hours by a factor of 1.75 to compensate for the declining output current during the charge cycle. If the amount of amp. hrs. discharged from the battery is known, use it instead of the battery's capacity to make the calculation.

To ensure safe and efficient operation always refer to our Charger Operating Instructions.

FEATURES

- Highly efficient LiFePO4 battery chargers
- 3-step charge control with current detection
- Manufactured in Europe with high-quality components
- Approved for medical applications*
- Alligator clip connectors with insulated sleeves
- Robust design with insulation class II

APPROVALS

- ISO9001:2015 – Quality management systems
- DOE compliant
- CE compliant
- EN 60601-1 compliant
- UL approved
- Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified

*PSC-124000-LiFe certified to EN60601-1 3.1 and EN60601-1-11. All other models certified to EN60601-1 3.1 and EN6061-1-2 4



SPECIFICATIONS

Model	Nominal Voltage	Input VAC	Line Frequency Hz	Output Current mA	Cell	Dimensions: inch (mm)			Weight		Charging Capacity Range
						Length	Width	Height	lbs.	kgs.	
PSC-124000-LiFe	12.8	90 - 264	47 - 63	4000	4	5.31 (135)	3.15 (80)	1.73 (44)	0.86	0.39	4Ah to 40Ah
PSC-1220000-LiFe-US	12.8	100 - 127	50 - 63	20000	4	8.27 (210)	4.45 (113)	2.09 (53)	3.07	1.40	17Ah to 170Ah
PSC-1220000-LiFe-EU	12.8	198 - 264	47 - 50	20000	4	8.27 (210)	4.45 (113)	2.09 (53)	2.53	1.15	20Ah to 200Ah
PSC-2410000-LiFe-US	25.6	100 - 127	50 - 63	10000	8	8.27 (210)	4.45 (113)	2.09 (53)	3.07	1.40	8.5Ah to 85Ah
PSC-2410000-LiFe-EU	25.6	198 - 264	47 - 50	10000	8	8.27 (210)	4.45 (113)	2.09 (53)	2.53	1.15	10Ah to 100Ah

GLOBAL HEADQUARTERS (USA AND INTERNATIONAL EXCLUDING EMEA)

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FURTHER INFORMATION

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities. If you have any queries or need help choosing a charger please contact our technical team who will be happy to help.