

## PSL-12200 12.8 Volt 23.0 AH

Lithium Iron Phosphate (LiFePO<sub>4</sub>)  
Rechargeable Battery

We've Got The Power.™

**Power-Sonic Batteries Engineered With Vision. Built With Care.**



Power-Sonic Corporation has been a leading force since 1970 in the supply of high quality cost effective batteries.

We market an extensive range of rechargeable batteries worldwide. These batteries envelop a broad spectrum of electronic and industrial applications, either as the prime or standby power source.

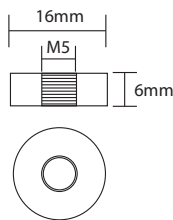
Power-Sonic is dedicated to continual product development to improve the performance and reliability of our product range. New batteries are constantly being introduced to meet the ever evolving needs of industry.

We are a 100% US owned private company. The corporation has an enviable record of growth and financial stability.

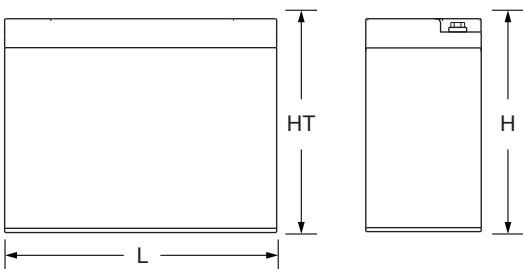
Providing our customers with reliable, yet economical, products is the corner stone of the Power-Sonic mission

### Terminals: (mm)

- Threaded insert w. 5 mm stud fastener



### Physical Dimensions: in (mm)



L: 7.13 (181) W: 3.00 (76) H: 6.54 (166) HT: 6.54 (166)

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

### About Lithium Iron Phosphate (LiFePO<sub>4</sub>)

- Compact and only 40% of the weight of comparable capacity SLA batteries. Making it much easier to handle and transport.
- Extraordinary cycle life ~ 2,500.
- 2 ½ hours recharge time with 12A current charge.
- Safe and stable chemistry. The use of lithium iron phosphate greatly reduces the risk of combustion or explosion due to high impact, overcharging or short circuit situations.
- Compatible with SLA battery chargers
- Rugged plastic case and cover, flame retardant (FR) to UL94 V-O.
- The battery cells are manufactured with internationally patented lithium iron phosphate powder from Phostech, Canada.
- UN 38.3, UL1642, UL2054, IEC62133, FCC and CE approved. Certified compliant with EU Battery Directive 2006/66/EC.
- Direct AGM replacement for 12 volt system of 18AH to 30AH.

Performance Specifications	General Parameters	Comments
<b>Nominal Voltage</b>	12.8 volts	
<b>Rated Capacity @ 5-hr Rate (77°F/25°C)</b>	23.0 AH	Standard discharge 4.6A after standard charge 4.6A
<b>Minimum Capacity @ 5-hr Rate (77°F/25°C)</b>	20.0 AH	
<b>Dimensions (in./mm)</b>		
<b>Length</b>	7.13 / 181 (max)	
<b>Width</b>	3.00 / 76 (max)	
<b>Height</b>	6.54 / 166 (max)	
<b>Life Expectation</b>	Residual capacity is about 60% of rated capacity	Charge CC@0.2C to 14.6V then CV until current to 0.05C; Rest 30 min., Discharge @ 0.2C to 10V. Temperature 68±9°F (20±5°C). Carry out 2500 cycles.
<b>Approximate Weight lbs./kg.</b>	6.16/2.80	
<b>Internal Resistance at 50% SOC</b>	<45mΩ	
<b>Discharge Cut-Off Voltage</b>	8.0V = 2.0 volts per cell	10V (Recommended)
<b>Charging Cut-Off Voltage</b>	15.6V = 3.9 volts per cell	14.6V (Recommended)
<b>Terminals</b>	M5 button (female threaded)	
<b>Standard Charge</b>	4.6A constant current (CC) charge to 14.6V, then constant voltage (CV) 14.6V charge until charge current declines to 1A	
<b>Standard Discharge</b>	Constant current 4.6A. 10.0 volts cut offvoltage	
<b>Cell Assembly</b>	IFR26650EC - 3.3AH	4 in series and 7 parallel
<b>Maximum Continuous Charge Current</b>	10A @ 68°F (20°C)	
<b>Maximum Continuous Discharge Current</b>	20A @ 68°F (20°C)	Over current ≥ 36 amps (≤1s)
<b>Charge Temperature Range</b>	32°F - 122°F (-0°C - 50°C)	
<b>Discharge Temperature Range</b>	14°F - 122°F (-10°C - 50°C)	
<b>Storage Temperature Range</b>	> 6 months 32~50°F ( 0~10°C) < 3 months 50~86°F (10~30°C)	60±25% Relative Humidity at Shipment Date
<b>Specific Energy</b>	102Wh/Kg	
<b>Specific Density</b>	128Wh/L	
<b>Short Circuit Protection</b>	>120A @ 68°F (20°C)	Replaceable 25A fuse
<b>Over-temperature Protection</b>	Discharge: 167°±9°F (75° ±5°C)	
	Charge: 149°±9°F (65° ±5°C)	

**Contact Information**
[www.power-sonic.com](http://www.power-sonic.com)

DOMESTIC SALES  
Tel: +1-619-661-2020  
Fax: +1-619-661-3650  
nationalsales@power-sonic.com

CUSTOMER SERVICE  
Tel: +1-619-661-2030  
Fax: +1-619-661-3648  
customer-service@power-sonic.com

TECHNICAL SUPPORT  
Tel: +1-619-661-2020  
Fax: +1-619-661-3648  
support@power-sonic.com

INTERNATIONAL SALES  
Tel: +1-650-364-5001  
Fax: +1-650-366-3662  
international-sales@power-sonic.com

CORPORATE OFFICE • 7550 Panasonic Way • San Diego, CA 92154 • USA • Tel: +1-619-661-2020 • Fax: +1-619-661-3650

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