

PSL-CP-12500

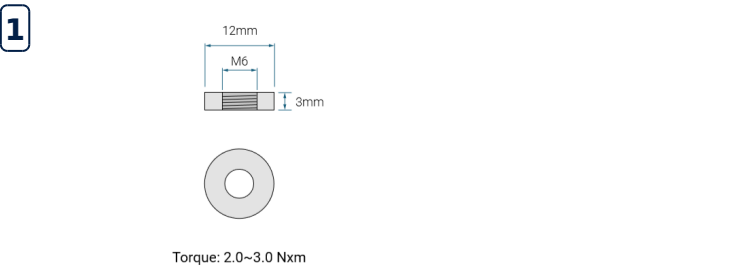
PSL-CP - Communications Protocols Lithium PSL-CP Series

Long cycle life and dependable performance with advanced connectivity. Integrated communications protocols allow seamless communication with external systems, providing real-time data on voltage, current, temperature, and state of charge. With built-in BMS protection these batteries are ideal for energy storage, telecom, UPS, and other applications where system integration and monitoring are critical.

Engineering Drawing

L: 7.68in (195.0mm) +/- 0.04 in. (+/- 1mm) for length and width
W: 5.12in (130.0mm) +/- 0.08 in. (+/- 2mm) for height
H: 7.2in (183.0mm)
HT: 7.2in (183.0mm)

Available Terminals



Features

- BMS Optimization
- Communication Port
- Lightweight Lithium
- Lithium 2X Power
- Lithium 40% Lighter
- Lithium Cycle Life
- Lithium Maintenance Free
- Lithium Powersport Performance
- Lithium Safety
- Not For Starting

Performance Specs

Nominal Voltage	12.8V
Nominal Capacity	50.0Ah
20-hr Rate	50.0Ah
10-hr Rate	50.0Ah
5-hr Rate	50.0Ah
1-hr Rate	50.0Ah
Weight	5.85kg
Internal Resistance	30.0 milliohms
Max Discharge Current	35.0A
Charge Temp Range	32°F (0°C) to 113°F (45°C)
Discharge Temp Range	-4°F (-20°C) to 140°F (60°C)
Case Material	ABS Plastic Rated to UL94:V0

Available options

- PSL-CP-12500 M6

Applications



Edge Data
Center



Medical



Mobility



Transport



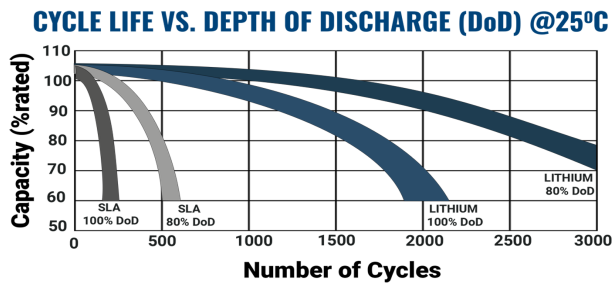
Utility



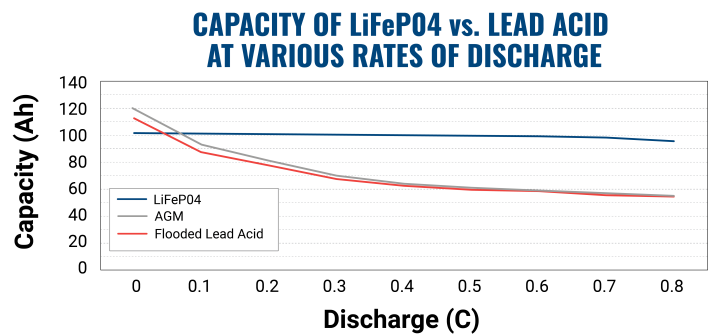
Wind

Graphs

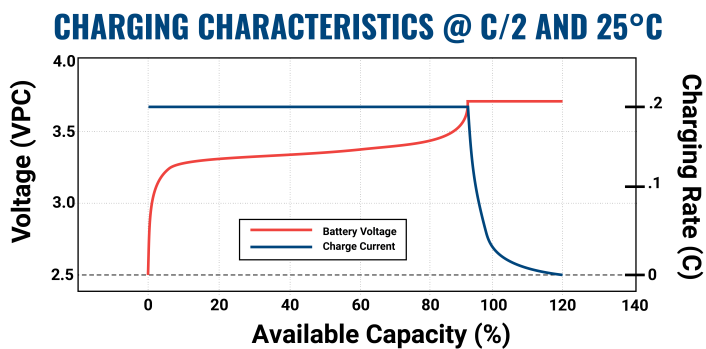
1. Cycle Life Lithium vs. SLA



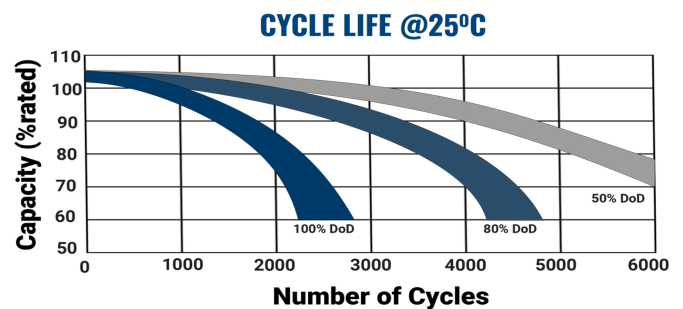
2. Discharge Rates Lithium vs. SLA



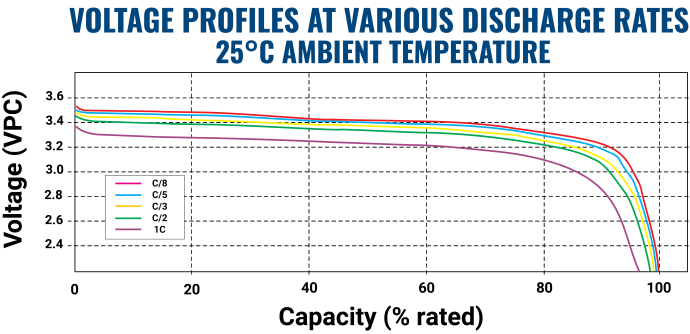
3. Lithium Charging



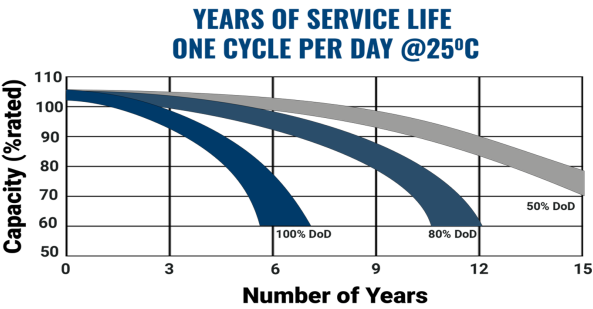
4. Lithium Cycle Life



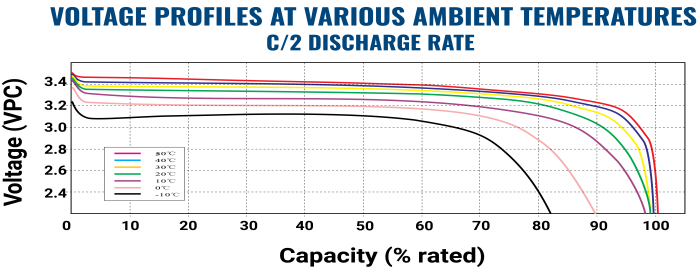
5. Lithium Discharge Rates



6. Lithium Service Life



7. Lithium Temperature Discharge



Lithium Protections

Condition	Nominal Voltage	Delay	Release
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Charging

- Cycle Applications: Apply constant voltage charge at 3.60VPC – 3.65VPC (14.4 to 14.6 volts for 12V Monobloc) at 20°C. The initial charging current should be set at less than C/4 Amps. Terminate the charge when the current falls to a 3% capacity rate to avoid overcharging. Stand-By or "Float" Service: Apply constant voltage charge of 3.35VPC – 3.45VPC (13.4 to 13.8 volts for 12V Monobloc) at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition. For further charging and maintenance information see the lithium resource center on Power-Sonic.com.

Approvals

