

PSL-SC-12500

PSL-SC - Series Capable Lithium PSL-SC Series

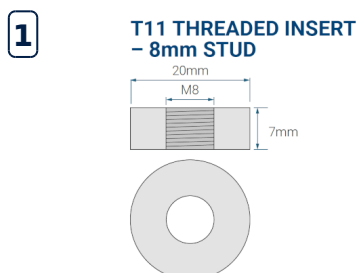
PSL-SC series lithium batteries can be connected in series or parallel for greater voltage or capacity. They deliver constant power, fast charging without the need for float, and long cycle life even at higher temperatures, making them a reliable, flexible solution for applications such as renewable energy systems, telecom, UPS, and industrial equipment.



Engineering Drawing

L: 7.76in (197.0mm) +/- 0.04 in. (+/- 1mm) for
W: 6.54in (166.0mm) length and width +/- 0.08
H: 6.85in (174.0mm) in. (+/- 2mm) for height
HT: 6.73in (171.0mm) dimensions

Available Terminals



Features

- BMS Optimization
- Lightweight Lithium
- Lithium 2X Power
- Lithium 40% Lighter
- Lithium Cycle Life
- Lithium Maintenance Free
- Lithium Powersport Performance
- Lithium Safety
- Not For Starting
- Serial/Parallel Benefit

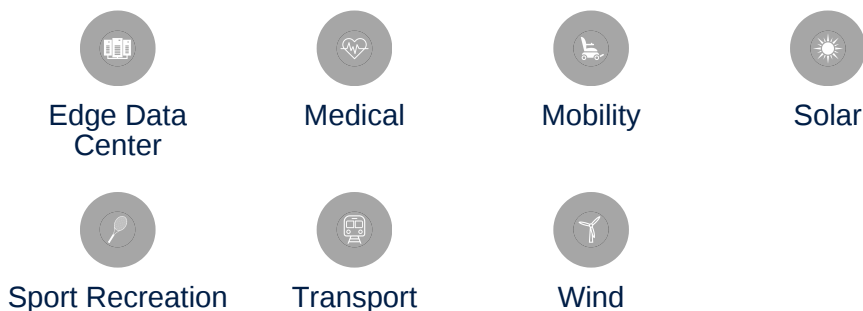
Performance Specs

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	6.3kg
Internal Resistance	50.0 milliohms
Max Discharge Current	50.0A
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

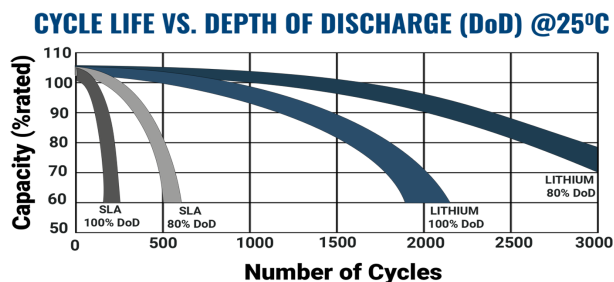
- PSL-SC-12500 M8

Applications

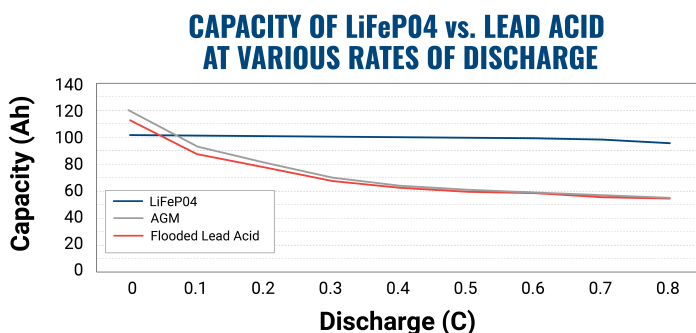


Graphs

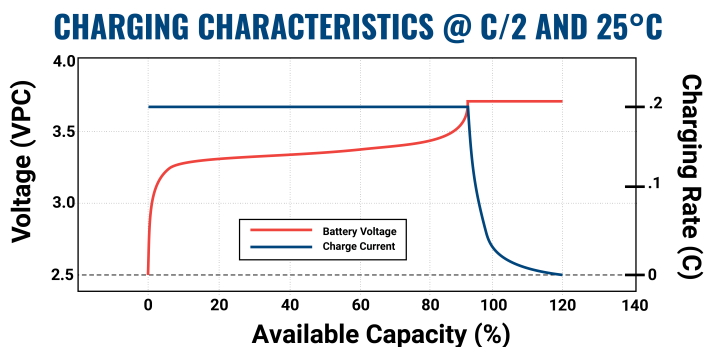
1. Cycle Life Lithium vs. SLA



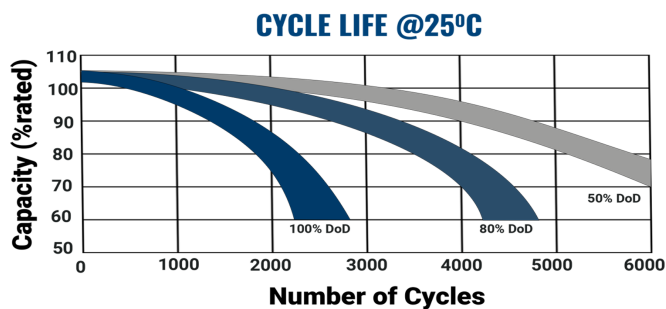
2. Discharge Rates Lithium vs. SLA



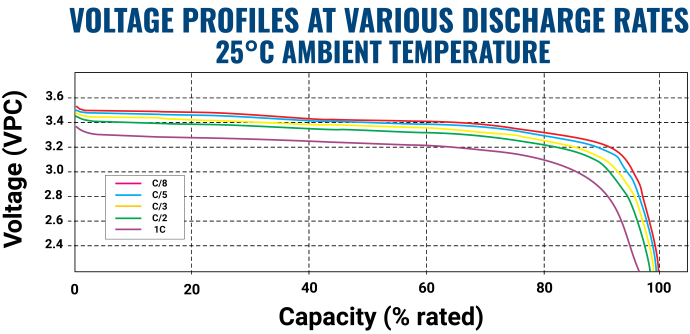
3. Lithium Charging



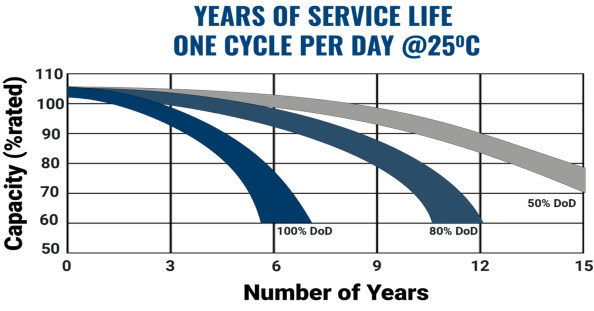
4. Lithium Cycle Life



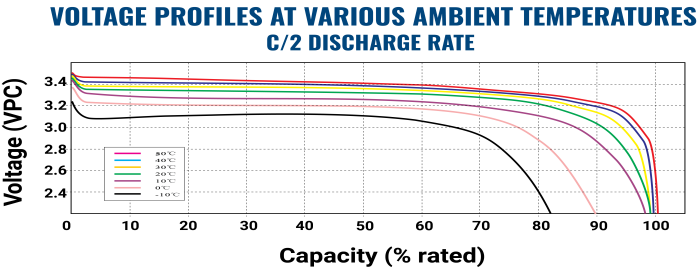
5. Lithium Discharge Rates



6. Lithium Service Life



7. Lithium Temperature Discharge



Lithium Protections

Condition	Nominal Voltage	Delay	Release
-----------	-----------------	-------	---------

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

