PSL-SC-121250

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.

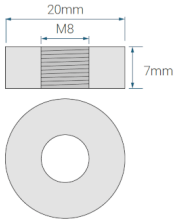
Engineering Drawing

L: 12.52in (318.0mm)
W: 6.5in (165.0mm)
H: 8.46in (215.0mm)
HT: 8.46in (215.0mm)

+/- 0.04 in. (+/- 1mm) for length and width +/- 0.08 in. (+/- 2mm) for height dimensions

Available Terminals

1 T11 THREADED INSERT – 8mm STUD



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	125.0Ah
20-hr Rate	125.0Ah
10-hr Rate	125.0Ah
5-hr Rate	125.0Ah
1-hr Rate	125.0Ah
Weight	14.88kg
Internal Resistance	30.0 milliohms
Max Discharge Current	150.0A
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

Phone: 1 (775) 824-6500
www.power-sonic.com

Available options

- PSL-SC-121250-G31 M8

Applications

Edge Data Center

Medical

Mobility

Solar

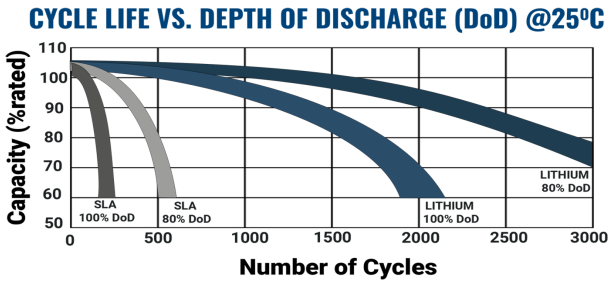
Sport Recreation

Transport

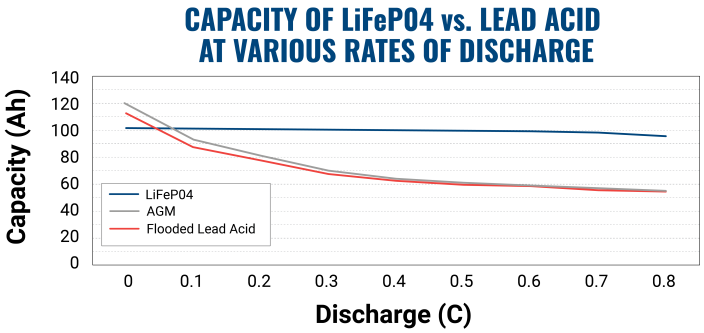
Wind

Graphs

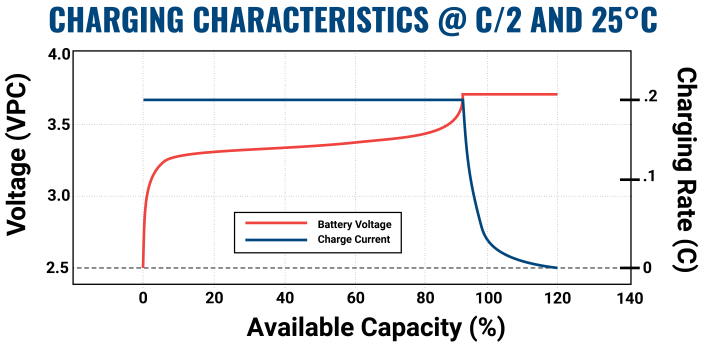
1. Cycle Life Lithium vs. SLA



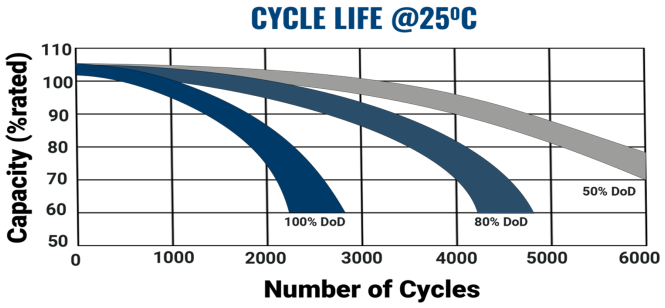
2. Discharge Rates Lithium vs. SLA



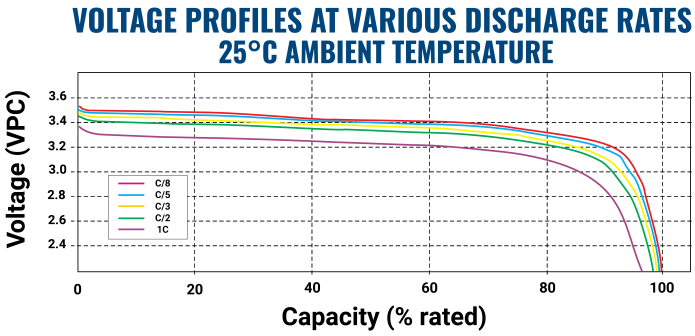
3. Lithium Charging



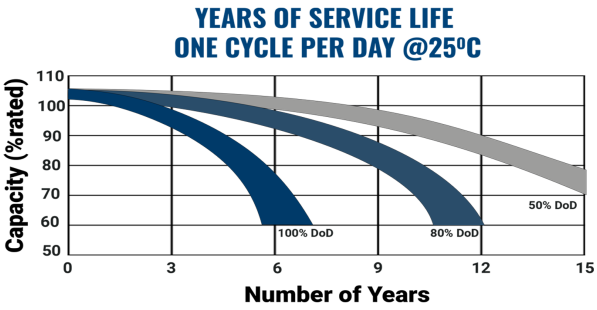
4. Lithium Cycle Life



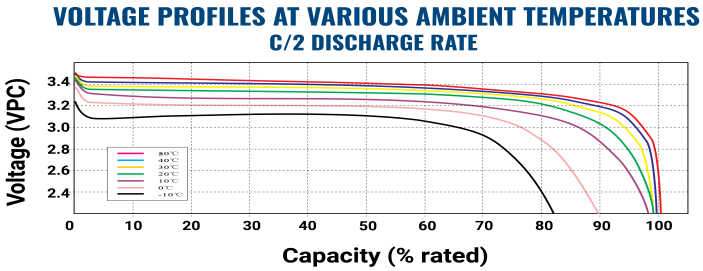
5. Lithium Discharge Rates



6. Lithium Service Life



7. Lithium Temperature Discharge



Lithium Protections

Condition	Nominal Voltage	Delay	Release

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