

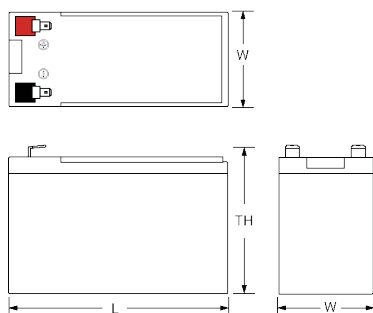
PSL-SC-1290

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: 5.94in (151.0mm)

W: 2.56in (65.0mm)

H: 3.74in (95.0mm)

HT: 3.9in (99.0mm)

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

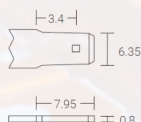
Available Terminals

1

F2

FASTON

0.250" x 0.032"
quick disconnect
tabs.



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

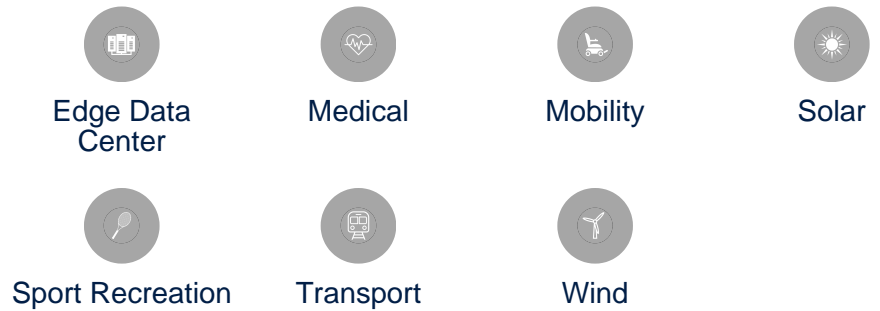
Performance Specs

| | |
|-----------------------|------------------------------|
| Nominal Voltage | 12.8V |
| Nominal Capacity | 9.0Ah |
| 20-hr Rate | 9.0Ah |
| 10-hr Rate | 9.0Ah |
| 5-hr Rate | 9.0Ah |
| 1-hr Rate | 9.0Ah |
| Weight | 1.0kg |
| Internal Resistance | 100.0 milliohms |
| Max Discharge Current | 15.0A |
| 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-1290 F2

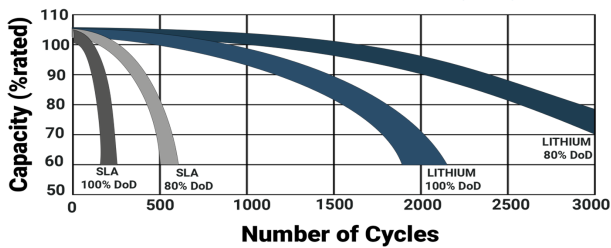
Applications



Graphs

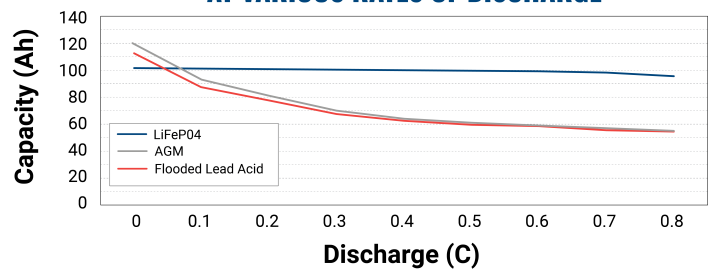
1. Cycle Life Lithium vs. SLA

CYCLE LIFE VS. DEPTH OF DISCHARGE (DoD) @25°C



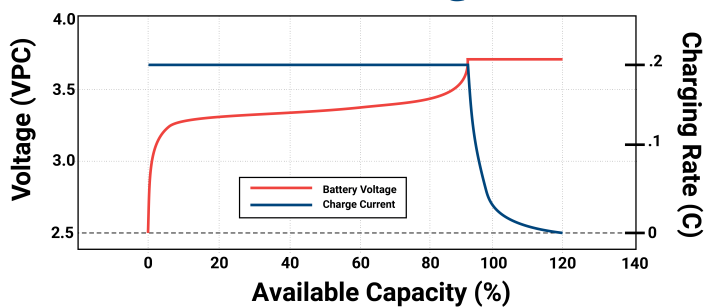
2. Discharge Rates Lithium vs. SLA

CAPACITY OF LiFeP04 vs. LEAD ACID AT VARIOUS RATES OF DISCHARGE



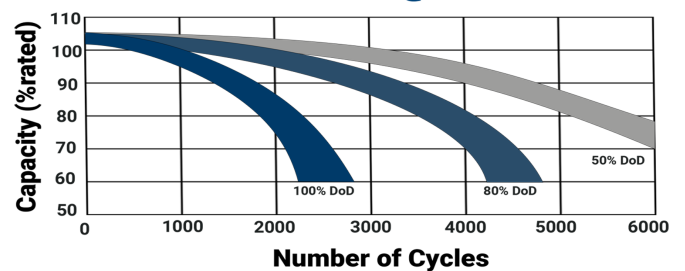
3. Lithium Charging

CHARGING CHARACTERISTICS @ C/2 AND 25°C

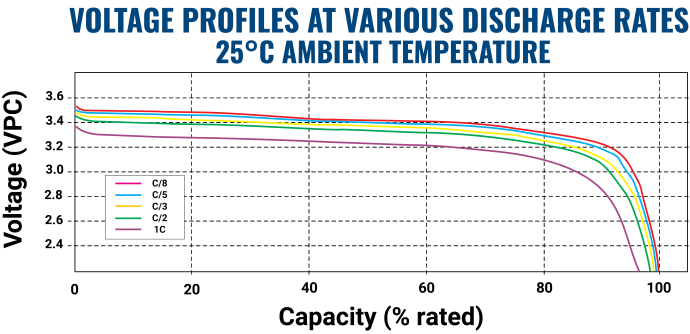


4. Lithium Cycle Life

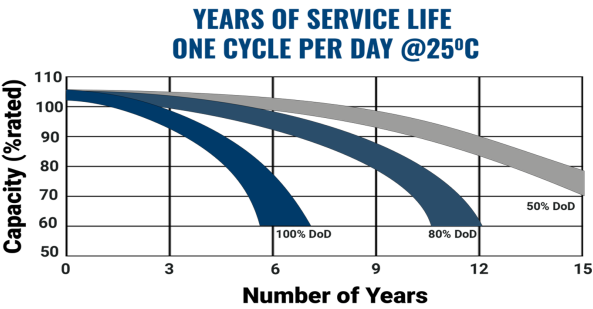
CYCLE LIFE @25°C



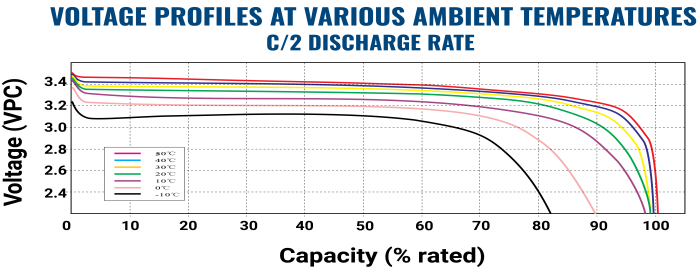
5. Lithium Discharge Rates



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

