



# SENTRY<sup>®</sup> LITHIUM

*LiFePO<sub>4</sub> Technology*



# SP3

**SEALED PERFORMANCE BATTERIES**

PROVIDING QUALITY SOLUTIONS FOR MULTIPLE APPLICATIONS



Sentry Lithium is a premium range of batteries consisting of the highest quality Lithium Iron Phosphate (LiFePO4) composition. Lithium Iron Phosphate (LiFePO4) has been selected for the Sentry range due to its convenient cell voltage, high energy density and cycle life and most importantly due to it being one of the safest Lithium technologies available. The Sentry Lithium range comes with all the benefits of LiFePO4 in either the standard 12V Sealed Lead Acid (SLA) case sizes or the convenient 19" Rack mount (48V) for Telecom, UPS and Solar applications. With up to 8 times the cycle life of standard SLA technology - Sentry Lithium will lower your total cost of ownership and provide you with the latest in battery technology.

## Applications:

### High Cyclic applications

- Mobility Vehicles
- Recreational Vehicles
- Caravan / Camping

### Fast Charge requirement

- Medical Devices
- RC Devices
- Boats / Recreation

### Low Weight applications

- Boats
- Golf Carts
- Personal power – Lighting, cameras etc



## Sentry Lithium Range:








Part Number	Description	Voltage (V)	Nominal Capacity (Ah)	Max Contin. Discharge (A)	Weight (Kg)	Length (mm)	Width (mm)	Height (mm)	Total Height (mm)	Terminal
SL12V7.5	Sentry Lithium 12V7.5AH	12.8	7.5	20.0	1.3	151	65	94	100	F2
SL12V14	Sentry Lithium 12V14AH	12.8	14.5	20.0	1.9	151	98	101	106	F2
SL12V15H	Sentry Lithium 12V15AH	12.8	15	30.0	2.7	181	77	163	167	M5 Insert
SL12V20	Sentry Lithium 12V20AH	12.8	20	30.0	3.2	181	77	163	167	M5 Insert
SL12V30	Sentry Lithium 12V30AH	12.8	30	30.0	4.6	166	125	170	175	M5 Insert
SL12V40	Sentry Lithium 12V40AH	12.8	40	50.0	6.0	195	165	163	168	M6 Insert
SL12V60	Sentry Lithium 12V60AH	12.8	60	30.0	9.5	229	138	208	213	M6 Insert
SL12V80	Sentry Lithium 12V80AH	12.8	80	30.0	12.8	258	168	210	215	M8 Insert
SL12V100	Sentry Lithium 12V100AH	12.8	100	50.0	13.8	330	172	215	221	M8 Insert
SL12V120	Sentry Lithium 12V120AH	12.8	120	50.0	19.0	341	173	281	287	M8 Insert

More options available on request.  
Max 3 in parallel and Max 2 in series.



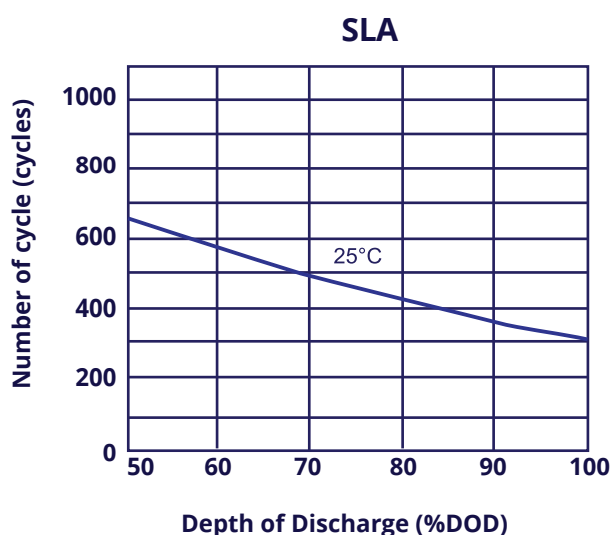
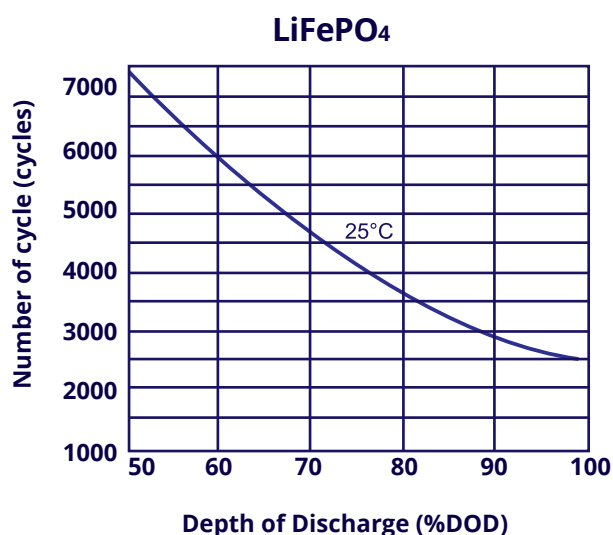
## Features and Benefits of LiFePO4

Feature:	Benefit:
Large number of cycles >3500 (80% DoD)	Up to 8 times cycle life of SLA lowering your total cost of ownership
Greater capacity utilisation	Gives longer runtime than equivalent SLA
High energy density (less than half of the weight of SLA)	Lowering total weight of application
Fast recharge	Battery is charged and ready to be used sooner
Safe and stable chemistry	The use of LiFePO4 along with the integrated BMS ensures protection against over charge / discharge, temperature and short circuit providing the highest degree of safety
Integrated battery management system (BMS)	Provides optimum safety and performance
Extremely low self-discharge rate	Can sit unused for longer periods of time
Three year warranty	Peace of mind
Most standard SLA chargers can be used (set to Gel / AGM)	Utilise existing charging infrastructure

Key Benefits	Sealed Lead Acid SLA (100Ah)		Lithium Iron Phosphate LiFePO4 (100Ah)
Weight	27.5 kg		13.8 kg
Cycle Life	>650 @ 50% DOD		>5000 @ 50%DOD
Self Discharge	Up to 6 months		Up to 12 months
Charge Time	8 to 12 hours		1 to 3 hours
Capacity Utilisation	50 to 60%		80 to 100%
Life Years	3 to 5 Years		>10 Years
Efficiency	60 to 90%		96%

### Lower total cost of ownership

- Up to 8 times the cycle life compared to equivalent SLA
- Saving up to 50% in battery hardware costs over the life of the system
- Reduction in labour replacement costs by up to 7 times
- Greater capacity utilisation (80% vs 50%) allows reduction in overall system size





**SPB**  
SEALED PERFORMANCE BATTERIES

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