# SENTRY LITHIUM RANGE

## LiFePO4 BATTERY SNL12V125BT



#### **Sentry Lithium Specification Sheet**

The Sentry Lithium 12V range has been specifically designed for replacement of similar size Lead acid batteries. The family is comprised of the popular sizes found in the lead acid range but with the added benefits of Lithium Iron Phosphate (LiFePO4) technology and is ideally suited to deep cycle longer run time applications.

### Features & Benefits

- Large number of cycles >2000 (100% DoD)
   Up to 8 times cycle life of SLA lowering your total cost of ownership
- Safe and stable chemistry & Integrated BMS
   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
- Greater capacity utilisation 60% more than SLA 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
- Flat Discharge Curve
  Longer run time & more efficient use of capacity
- Extremely low self-discharge rate
  Can sit unused for longer periods of time
- UL1642 at cell level

In order to use the Bluetooth functionality, please download our SENTRY App today.





Nominal Voltage         12.8v           Nominal Capacity (25°C, 0.33C)         125Ah           Terminal         M8           Length (mm)         318 ± 2mm           Width (mm)         165 ± 2mm           Height (mm)         215 ± 2mm           Weight         15.0kg           Max Charge Voltage         14.6 ± 0.1V           Standby         13.8 ± 0.1V           Cut off Voltage         8V           Max. Discharge Current (30 mins)         100A           Max. Pulse Discharge Current (3 sec)         350A           Max. Charge Current         80A           Recommended Current Charge         ≤ 60A           Cycle Life (100% DoD)         ≥ 2000           Operating Temp - Charge         0 - 50°C           Operating Temp - Discharge         -20 - 55°C           Short Circuit Release         30 Sec           Max. Series / Parallel Configuration         4P		
Terminal       M8         Length (mm)       318 ± 2mm         Width (mm)       165 ± 2mm         Height (mm)       215 ± 2mm         Weight       15.0kg         Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Nominal Voltage	12.8v
Length (mm)       318 ± 2mm         Width (mm)       165 ± 2mm         Height (mm)       215 ± 2mm         Weight       15.0kg         Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Nominal Capacity (25°C, 0.33C)	125Ah
Width (mm)       165 ± 2mm         Height (mm)       215 ± 2mm         Weight       15.0kg         Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Terminal	M8
Height (mm)       215 ± 2mm         Weight       15.0kg         Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Length (mm)	318 ± 2mm
Weight       15.0kg         Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Width (mm)	165 ± 2mm
Max Charge Voltage       14.6 ± 0.1V         Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Height (mm)	215 ± 2mm
Standby       13.8 ± 0.1V         Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Weight	15.0kg
Cut off Voltage       8V         Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Max Charge Voltage	14.6 ± 0.1V
Max. Discharge Current (30 mins)       100A         Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Standby	13.8 ± 0.1V
Max. Pulse Discharge Current (3 Sec)       350A         Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Cut off Voltage	8V
Max. Charge Current       80A         Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Max. Discharge Current (30 mins)	100A
Recommended Current Charge       ≤60A         Cycle Life (100% DoD)       ≥2000         Operating Temp - Charge       0 - 50°C         Operating Temp - Discharge       -20 - 55°C         Short Circuit Release       30 Sec	Max. Pulse Discharge Current (3 Sec)	350A
Cycle Life (100% DoD)         ≥2000           Operating Temp - Charge         0 - 50°C           Operating Temp - Discharge         -20 - 55°C           Short Circuit Release         30 Sec	Max. Charge Current	80A
Operating Temp - Charge 0 - 50°C  Operating Temp - Discharge -20 - 55°C  Short Circuit Release 30 Sec	Recommended Current Charge	<u>&lt;</u> 60A
Operating Temp - Discharge -20 - 55°C  Short Circuit Release 30 Sec	Cycle Life (100% DoD)	<u>&gt;</u> 2000
Short Circuit Release 30 Sec	Operating Temp - Charge	0 - 50°C
5.15.17 G.17 G.17 G.17 G.17 G.17 G.17 G.17 G	Operating Temp - Discharge	-20 - 55° <sup>C</sup>
Max. Series / Parallel Configuration 4P	Short Circuit Release	30 Sec
	Max. Series / Parallel Configuration	4P

#### Terminal M8 Insert



