INVICTA | LITHIUM BATTERIES

SNL12V75S SPECIFICATION SHEET

About Invicta Lithium

The Invicta 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**
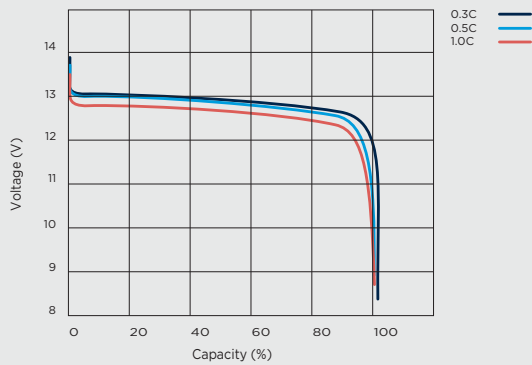 Can sit unused for longer periods of time

- **UL1642 at cell level**

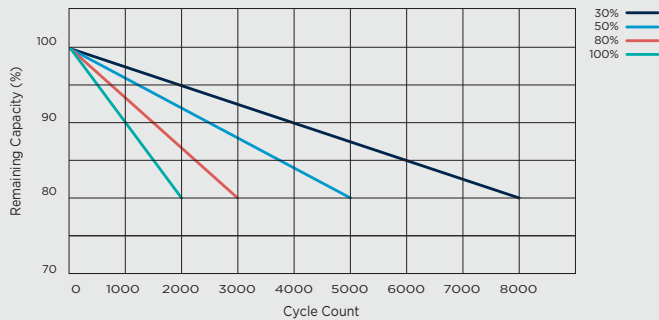|	
Nominal Voltage	12.8v
Nominal Capacity (25°C, 0.33C)	75Ah
Terminal	M8
Length (mm)	260 ± 2mm
Width (mm)	169 ± 2mm
Height (mm)	215 ± 2mm
Weight	9.8kg
Max Charge Voltage	14.6 ± 0.1V
Standby	13.8 ± 0.1V
Cut off Voltage	10V
Max. Discharge Current	50A
Max. Pulse Discharge Current (3 Sec)	150A
Max. Charge Current	50A
Recommended Current Charge	$\leq$ 30A
Cycle Life (100% DoD)	$\geq$ 2000
Operating Temp - Charge	0 - 50°C
Operating Temp - Discharge	-20 - 55°C
Short Circuit Release	Load Release
Max. Series / Parallel Configuration	4P OR 4S

Terminal M8 Insert
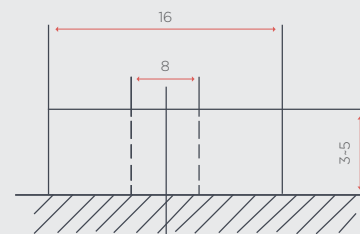
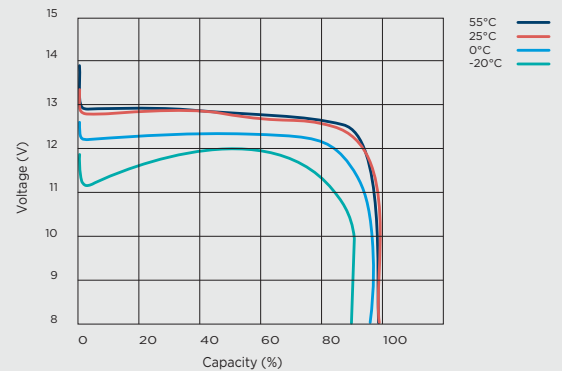## SNL12V75S SPECIFICATION SHEET

Discharge Curve at Different C Rates

0.3C
0.5C
1.0C

Voltage (V) vs Capacity (%)

Charging Characteristic (25°C @ 0.33C)

Current
Voltage

Voltage (V) / Charging Current (C) vs Charge Capacity (%)
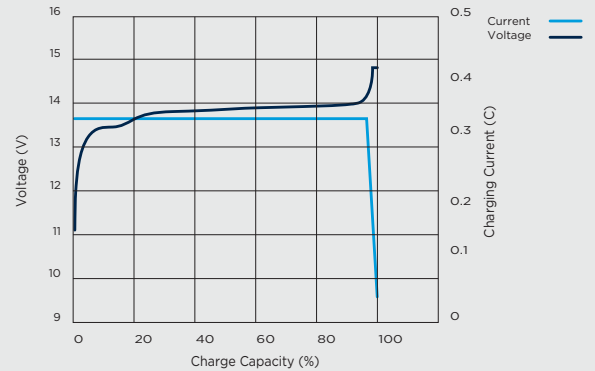
Cycle Life at Different DoD

30%
50%
80%
100%

Remaining Capacity (%) vs Cycle Count

Discharge Curve at Different Ambient Temperature (0.33C)

55°C
25°C
0°C
-20°C

Voltage (V) vs Capacity (%)

For more information or pricing please contact the team at SPB on 1300 001 772 or sales@spb.net.au