

SNL12V12S SPECIFICATION SHEET



About Invicta Lithium

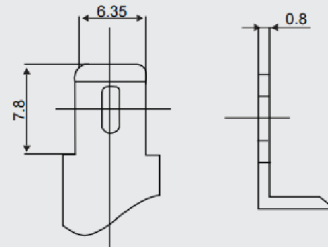
The Invicta Lithium 12V range has been specifically designed for replacement of similar size Lead acid batteries. The family is comprised of the popular sizes found in the lead acid range but with the added benefits of Lithium Iron Phosphate (LiFePO4) technology and is ideally suited to deep cycle longer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

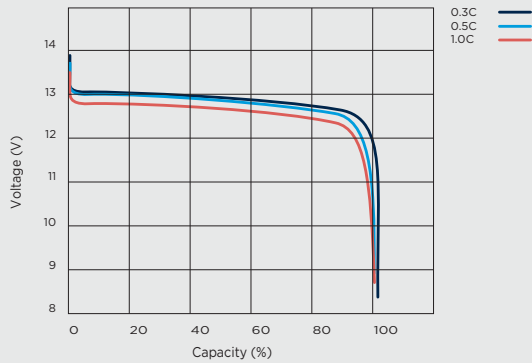
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|--------------------------------------|--------------|
| Nominal Voltage | 12.8v |
| Nominal Capacity (25°C, 0.33C) | 12Ah |
| Terminal | F2 |
| Length (mm) | 151 ± 2mm |
| Width (mm) | 98 ± 2mm |
| Height (mm) | 96 ± 2mm |
| Weight | 1.6kg |
| Max Charge Voltage | 14.6 ± 0.1V |
| Standby | 13.8 ± 0.1V |
| Cut off Voltage | 10V |
| Max. Discharge Current | 15A |
| Max. Pulse Discharge Current (3 Sec) | 60A |
| Max. Charge Current | 12A |
| Recommended Current Charge | ≤6A |
| Cycle Life (100% DoD) | ≥ 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 F2

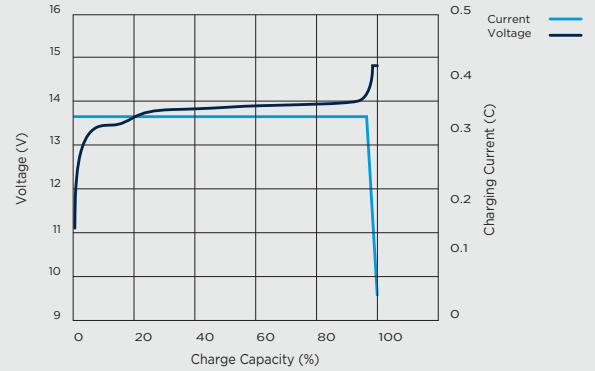


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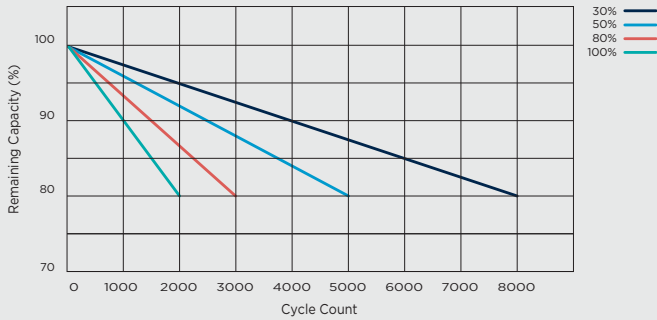
Discharge Curve at Different C Rates



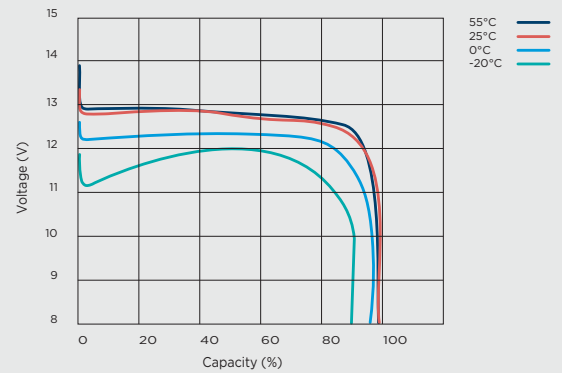
Charging Characteristic (25 °C @ 0.33C)



Cycle Life at Different DoD



Discharge Curve at Different Ambient Temperature (0.33C)



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