

NPL12-100SL

Neuton Power (12.8V) LiFePO4 (LFP) Slimline series batteries are light weight and ultra-thin design for UTE, 4WD and Marine applications.

The prismatic LFP cells are intrinsically more reliable, powerful and have a longer cycle life than its AGM counterparts. The added built-in BMS enables the battery further protection and performance as it constantly analyses the voltage, temperature, and finer cell balancing.

Features

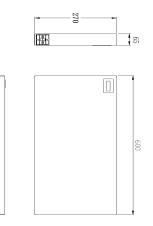
- Made from eco-friendly materials
- Construction of high-quality prismatic cells
- Currently the safest lithium technology in the market
- Excellent resistance against harsh conditions and abuse
- Less than 3% self-discharge per month
- Maintenance-free and modular
- Up to 60% weight saving compared to its AGM counterparts
- LCD screen for SOC display
- Built-in safety protections
- 5 Years warranty
- Design life of up to 15-20 years

Specification

Voltage Range(V)	Range(V) 9.2~14.6			
Cell	3.2V100Ah			
Cell Series&Parallels	4S1P			
Rated Voltage(V)	12.8			
Rated Capacity(Ah)	100			
Rated Energy(KWh)	1.28			
Maximum Charge Current(A)	100			
Maximum Disharge Current(A)	200			
Pulse Current(A)(≤5s)	600			
End of Discharge Voltage(V)	11.2			
Recommended Charge Voltage(V)	13.6~13.8			



Metal Case



^r Size

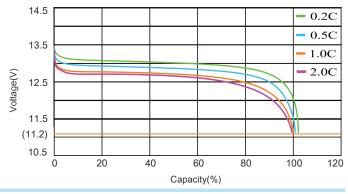
Life Cycle (0.5C/0.25C,80%DOD @ 25°C)	Approx 4000		
Short-circuit Current (< 10ms)	Approx.1200A		
Dimension (L*W*T)	(600*270*65)mm		
Total Weight (Kg)	Approx. 15		
Internal Resistance (Fully charged @ 25°C)	≤10 mΩ		
Thermal Management	Convection cooling		
Operating Temperature Charge	0~50°C		
Operating Temperature Discharge	-20~65°C		
Operating Humidity	60±25%R.H.		

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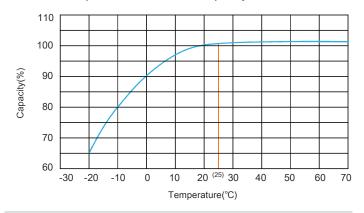


Characteristics Curve



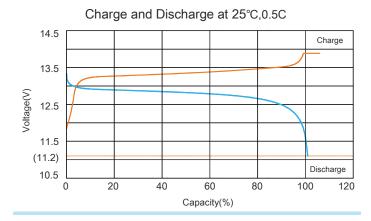


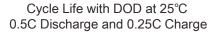
Temperature Effects on Capacity at 0.5C

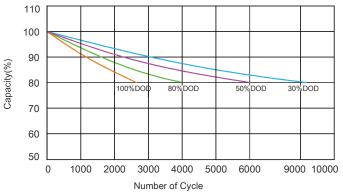


MECHANICAL SPECIFICATIONS

Case Material	SPCC					
Cell Type-Chemistry	Prismatic LiFePO4					
Terminal Type	2*175 Anderson					
IP Grade	IP2X					
BMS CHARACTERISTICS						
Recommended Charge Current	< 50A					
Maximum Charge Current	100A					
Maximum Continuous Discharge	Current 200A					
Recommended Charge Voltage	13.6V-13.8V					
Max Charge Voltage	14.6V					
Over Charge Protection Voltage	Range 14.8-15.2V					
Charge Mode	CC/CV					
Over Discharge Protection Voltag	ge Range 8.4-10V					







Performance Data								
Time(min)	30	60	90	120	180	240		
Constant Power(kw)	2.56	1.28	0.86	0.64	0.42	0.32		
Constant Current(A)	200	100	66.6	50	33.3	25		



Hi-Tec Batteries Pty Ltd.

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