

# Neuton Power (12.8V) LFP - Slimline (SL) Series



## NPL12-100SL

Neuton Power (12.8V) LiFePO<sub>4</sub> (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.

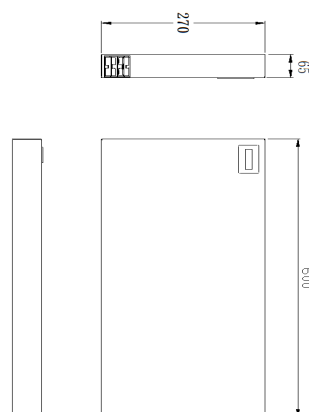


Metal Case

### 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

### Size



### Specification

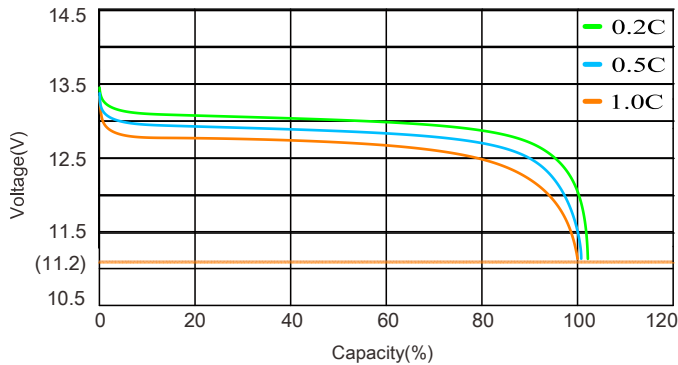
Voltage Range(V)	10.8-14.6
Cell	3.2V100Ah
Cell Series&Parallels	4S1P
Rated Voltage(V)	12.8
Rated Capacity(Ah)	100
Rated Energy(KWh)	1.28
Maximum Charge Current(A)	100
Maximum Discharge Current(A)	100
End of Discharge Voltage(V)	11.2
Recommended Charge Voltage(V)	13.8~14.4

Life Cycle (0.5C/0.25C,80%DOD @ 25°C)		Approx 4000
Short-circuit Current (< 1ms)		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	0~55°C
Operating Temperature	Discharge	-20~55°C
Operating Humidity		60±25%R.H.

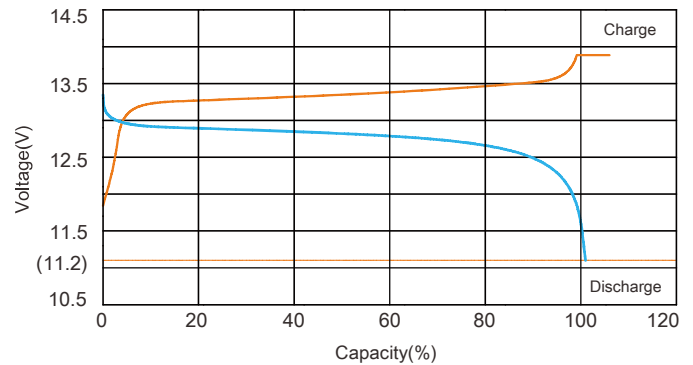
# NPL12-100SL

## Characteristics Curve

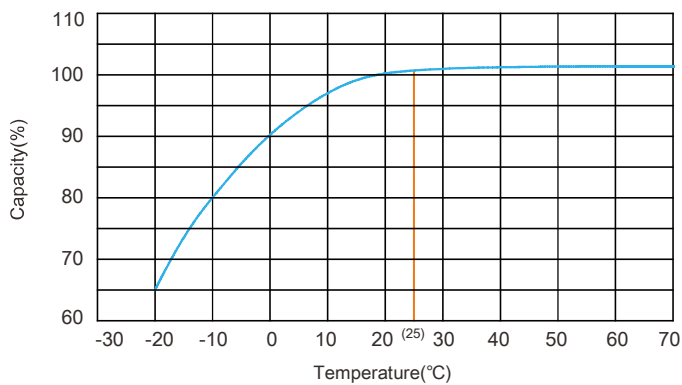
Discharge Performance at 25°C



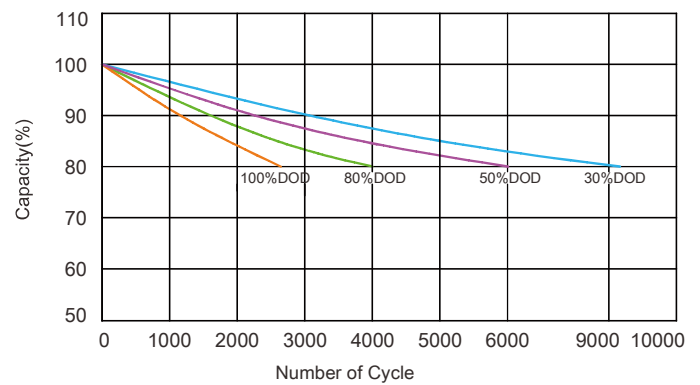
Charge and Discharge at 25°C, 0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD at 25°C  
0.5C Discharge and 0.25C Charge



## MECHANICAL SPECIFICATIONS

Case Material	SPCC
Cell Type-Chemistry	Prismatic LiFePO4
Terminal Type	2*120 Anderson
IP Grade	IP2X

## BMS CHARACTERISTICS

Recommended Charge Current	< 50A
Maximum Charge Current	100A
Maximum Continuous Discharge Current	100A
Recommended Charge Voltage	13.8V
Max Charge Voltage	14.4V
Over Charge Protection Voltage	14.6V
Charge Mode	CC/CV
Over Discharge Protection Voltage	10.8V

## Performance Data

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



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