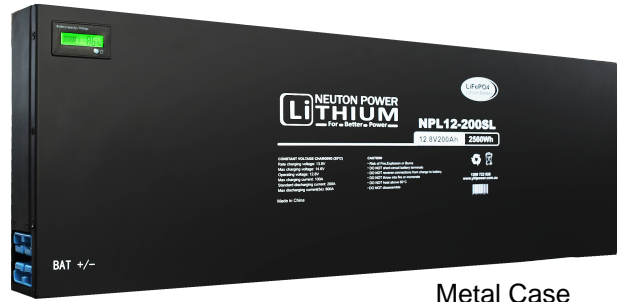


NPL12-200SL

Neutron 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.

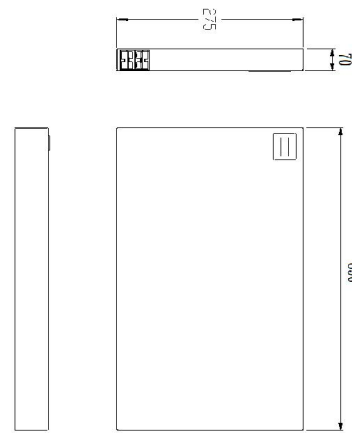


Metal Case

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

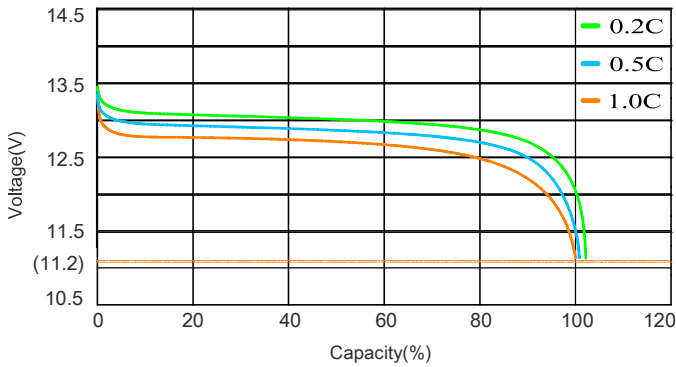


Specification

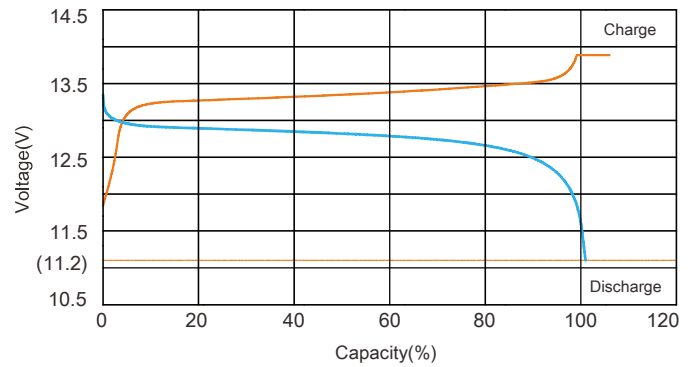
Voltage Range(V)	9.2~14.6	Life Cycle (0.5C/0.25C,80%DOD @ 25°C)	Approx 4000
Cell	3.2V200Ah	Short-circuit Current(< 10ms)	Approx.2500A
Cell Series&Parallels	4S1P	Dimension (L*W*T)	(850*275*70)mm
Rated Voltage(V)	12.8	Total Weight (Kg)	Approx. 28
Rated Capacity(Ah)	200	Internal Resistance (Fully charged @ 25°C)	≤5 mΩ
Rated Energy(KWh)	2.56	Thermal Management	Convection cooling
Maximum Charge Current(A)	200	Operating Temperature Charge	0~50°C
Maximum Discharge Current(A)	200	Operating Temperature Discharge	-20~65°C
Pulse Current(A)(≤5s)	600	Operating Humidity	60±25% R.H.
End of Discharge Voltage (V)	11.2		
Recommended Charge Voltage(V)	13.6~13.8		

Characteristics Curve

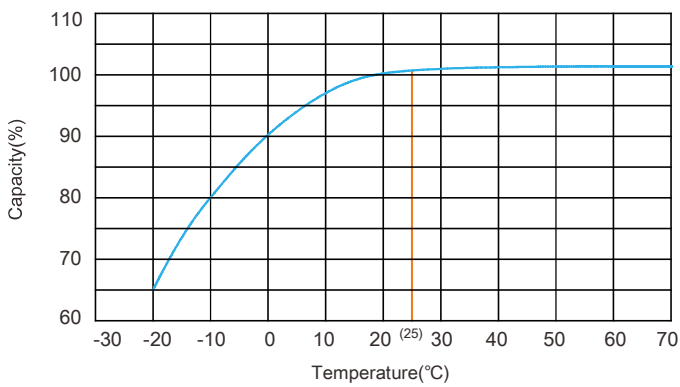
Discharge Performance at 25°C



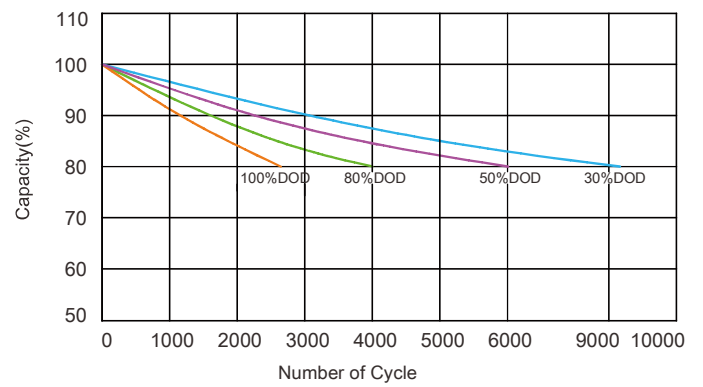
Charge and Discharge at 25°C, 0.5C



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*175 Anderson
IP Grade	IP2X

BMS CHARACTERISTICS

Recommended Charge Current	< 100A
Maximum Charge Current	200A
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 Voltage Range	8.4-10V

Performance Data

Time(min)	60	120	180	240	360	480
Constant Power(kw)	2.56	1.28	0.85	0.64	0.42	0.30
Constant Current(A)	200	100	66.6	50	33.3	25



YHI POWER
Battery Power You Can Rely On

20-22 Venture Way, Braeside VIC 3195
TEL: 1300 722 028 FAX: 1300 722 328

www.yhipower.com.au