NorthBatt
Power for Life

NLFP 25.6-100

LiFePO4 25.6V - 100AH Battery

ELECTRICAL PERFORMANCE	
Nominal Voltage	25.6 V
Nominal Capacity	100 Ah
Capacity @ 40A	300 min
Energy	2560 Wh
Resistance	≤20 mΩ @ 50% SOC
Self Discharge	<3% / Month
Cells	LFP Cell 3.2V



CHARGE PERFORMANCE	
Recommended Charge Current	20A
Max Charge Current	50 A
Recom. Max Charge Voltage	<29.2 V
BMS Charge Cut-Off Voltage	<30.4 V (0.5-1.5 s)
BMS Reconnect Voltage	>28.0 V
Balancing Voltage	27.2 V
Bluetooth Test Window & LED display	Standard accessories
Maximum Batteries in Series	2

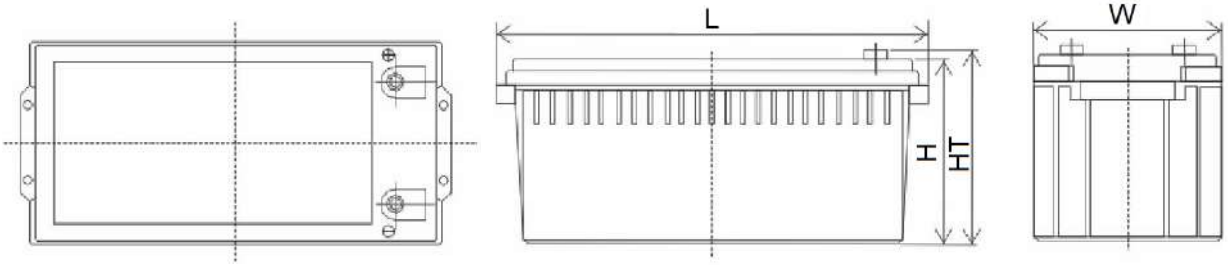
MECHANICAL PERFORMANCE	
Dimension (L x W x H)	522 x 240 x218 mm
Approx. Weight	20.0 kg
Terminal Type	M8
Terminal Torque	9 ~ 11 N-m
Case Material	ABS
Enclosure Protection	IP65

DISCHARGE PERFORMANCE	
Continuous Discharge Current	50A
Maximum continuous Discharge Current	100 A
BMS Peak Discharge Cut-Off Current	300 A (5 ~15 ms)
Recommended Low Voltage Disconnect	20.0 V
BMS Cut off / Reconnect Voltage	19.6V (50-150 ms) / >22.4 V
Short Circuit Protection	200 ~ 600 μs

TEMPERATURE PERFORMANCE	
Discharge Temperature	-20 ~ 60 ºC
Charge Temperature	0 ~ 45 ºC
Storage Temperature	-5 ~ 35 ºC
High Temperature Cut-Off	65 ºC
Reconnect Temperature	48 ºC

COMPLIANCE	
Certifications	CE, UN38.3, UL1973 & IEC62619
Shipping Classification	UN 3480, CLASS 9

DIMENSIONS



L mm	W mm	H mm	HT mm
522	240	218	222

Performance may vary depending on application. All specifications are subject to change without prior notice to the user. This data is for evaluation purposes only. No guarantee is intended or implied by this data. For clarification and updated information, please contact us.

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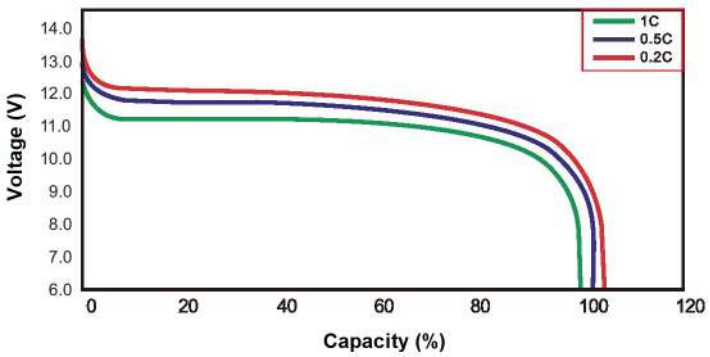
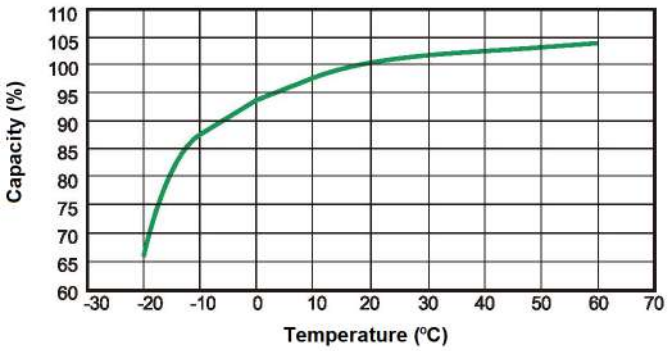
PERFORMANCE CHARACTERISTICS

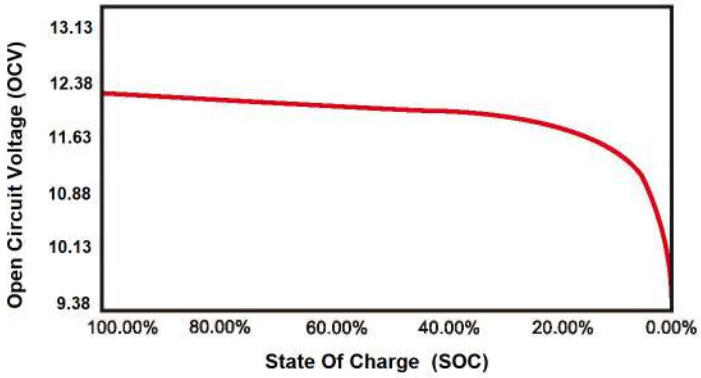
12.8V Discharge Performance at 25 °C



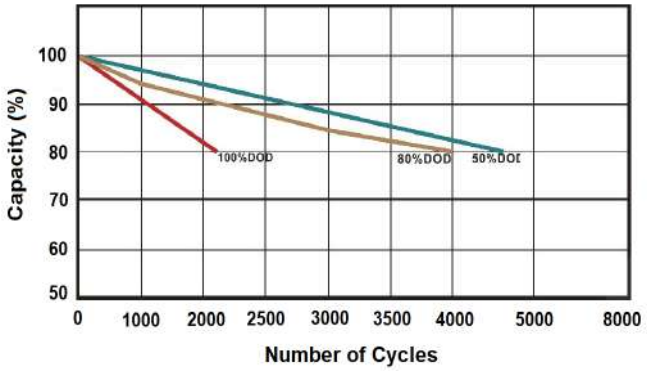
Temperature vs Capacity at 0.2C



12.8V State Of Charge vs Open Circuit Voltage



Cycle Life vs D.o.D. at 25 °C, 0.2C



FEATURES & BENEFITS

High cycle life
>4600 cycles @ 50% DoD for effectively lower total cost of ownership.

Longer service life
Low maintenance batteries with stable chemistry. Easily monitor state of charge (SoC) of smart models.

Built in circuit protection
Battery Management Systems (BMS) are incorporated against abuse.

Better storage
Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.

Quickly recharge
Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.

Extreme heat tolerance
Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.

Lightweight
Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

APPLICATIONS

Lithium Iron Phosphate can be used in most applications that use Lead Acid, GEL or AGM type batteries.
Suitable applications include:

- Solar Storage
- Marine
- Electric tools
- Buggies
- Caravan
- Remote Monitoring
- Switching applications and more

CAUTIONS

- Do NOT short circuit, crush or disassemble.
- Do NOT heat or incinerate.
- Do NOT immerse in any liquid.
- Store at 50% capacity. Recharge every 3 months. The storage area should be clean, cool, dry and ventilated.