Neata® Super energy

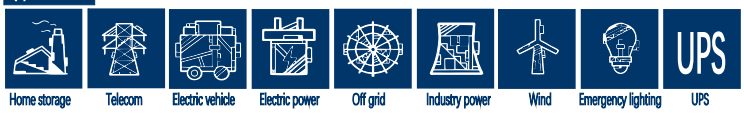
# Lithium Battery Series

## LFP24100(25.6V100AH)



Lithium Series Batteries provide superior performance, capacities and reliability. Using state of high power cell technology the lithium series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial, industrial, residential, and private applications. The maintenance free construction and advanced design features makes the lithium Series the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment, Floor Machines,Forklifts, Aerial lifts, and Robotics; Marine, RV,and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

Applications




## BATTERY SPECIFICATIONS

| | | | | | |
|---|---|---|---|---|---|
| Battery Type - Chemistry | LiFePO4 | | Internal Resistance - Milliohms | < 80 | mΩ |
| Nominal Voltage | 25.6 | V | Efficiency - round trip | > 99.5 | % |
| Amp Hour Capacity | 100 | AH | Self Discharge per Month | < 3 | % |
| Energy Density | 2560 | Wh | Max parallel connections | 4 | pcs |
| Dimensions(LxWxH) | 483*170*240 | mm | Seriesl connections | 51.2 | V |
| Weight | 22 | KGS | Case IP Rating | IP56 | |
| Terminal Type | M8 | | DesignLife | 20 | Years |
| Terminal Torque | 12.4 | NM | Cycle Life (1C, 25℃@80%DOD) | >4000 | cycles |
| Case Material | ABS | | Cycle Life (0.2C, 25℃@80%DOD) | >6000 | cycles |
| BMS build-in | Yes | | | | |
| | | | Discharge Temperature | (-23 to 65) | ℃ |
| Recommend Charge Voltage | 28.5 | ±0.20V | Charge Temperature | (-3 to 65) | ℃ |
| Max Charge Voltage | 29.5 | ±0.20V | Storage Temperature | (-20 to 45C) | ℃ |
| Recommend Charge current | 25 | A | | | |
| Max Charge Current | 100 | A | Bluetooth(APP) | Optional | |
| Charge Current (0 to -10℃) | <0.1 | C | LCD Screen | Optional | |
| Charge Currrent (-20 to -10℃) | <0.05 | C | Heating functions -20°C | Optional | By Charger |
| Recommend Discharging voltage | 22.5 | ±0.20V | Batteryself heating function | Optional | BY Cell |
| Max Discharging Voltage | 19.2 | ±0.20V | | | |
| Max Discharge Current | 100 | A | Shipping Classification | UN3480, CLASS 9 | |
| Pulse Discharge Current | 180 | A±3S | Other Certifications | CB /CE | |

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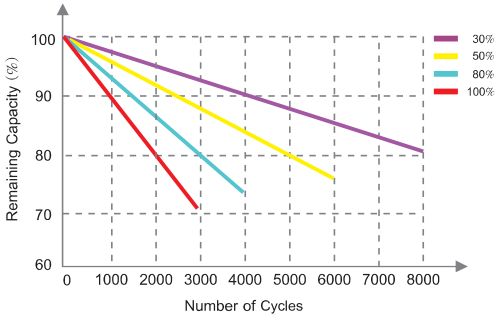
## LFP24100(25.6V100AH)

## BMS SPECIFICATIONS

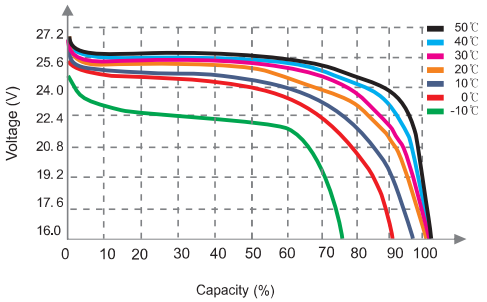
BMS Version :LL

| | | | | | | |
|---|---|---|---|---|---|---|
| BMS Protections Range: | Over (Voltage, Current, Temperaturemanagement ) and cell balance | | | | | |
| Over Charging Cell protection | >3.80 | ±0.05V | Delay | | 2 ±0.5S | |
| Over Charging Pack Warning | >29.6 | ±0.20V | | | | |
| Over Charging Pack protection | >30 | ±0.20V | Delay | | 2 ±0.5S | |
| Over Charging Current Warning | >105 | ±2.0A | | | | |
| Over Charging Current protection 1 | >105<125 | ±2.5A | Delay | | 15 ±1.0S | |
| Over Charging Current protection 2 | ⩾125 | ±2.5A | Delay | | 3 ±1.0S | |
| OverCharging Temp Protection 1 | <-5 or>70 | ±3℃ | Release | >0 or < 60 | ±3℃ | Delay:2±0.5S |
| Over Discharging Cell protection | <2.1 | ±0.05V | Delay | | 2 ±0.5S | |
| Over Discharging Pack protection | <19.2 | ±0.20V | Delay | | 2 ±0.5S | |
| Over Discharging current Warning | >105 | ±2.5A | | | | |
| Over Discharging current protection 1 | >105 <180 | ±2.5A | Delay | | 20 ±1.0S | |
| Over Discharging current protection 2 | ⩾180 | ±2.5A | Delay | | 3 ±1.0S | |
| Over Discharging Temp Protection 1 | <-25 or>75 | ±3℃ | Release | >-20 or < 70 | ±3℃ | |
| PCB Temp protection | >95 | ±3℃ | Release | < 80 | ±3℃ | Delay:2±0.5S |
| Cell Balance Start | 3.5 | ±0.05V | Cell voltage difference < 20mV | | | Passive balance |
| Balance Current | 150 | ±10mA | | | | |
| Short circuit | | | Delay | | 0.1 ±0.2ms | |
| Power consumption | <300 | uA | Switch-off mode | | Storage & transportation | |
| | <500 | uA | Sleep mode | | Protection & stand-by | |
| | <15 | mA | Operating mode | | Operating | |
| | <28 | mA | Operating mode | | Low voltage to start Pre-charge | |
| Communication ports | Major CAN/RS485 opitional for Bluetooth/Dryport/SNMP | | | | Can be customized | |
| Temperature accuracy | ±2 | ℃ | Measuring range -40~100℃ | | | |
| Voltage accuracy | ±15 | mv | For cells and module | | | |
| Current accuracy | FSC | ±5% | Measuring range -200~+200A | | | |
| SOC | ±5% | | Integral calculation | | | |

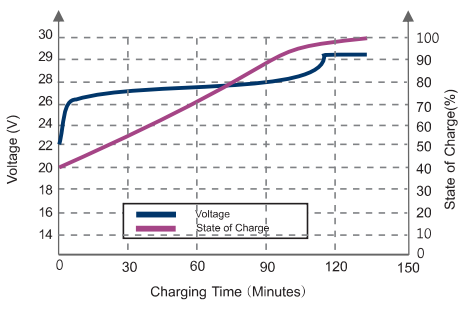
**Different DOD Discharge Cycle Life Curve 1C 25℃**




**Different Temperature Discharge Curve(0.2C)**




**State of Charge Curve(0.5C, 25℃)**



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