



# LION BATTERIES

## TL-48-100 LITHIUM DEEP-CYCLE BATTERY

**FEATURES:** Lithium Iron Phosphate (LiFePO<sub>4</sub>):the Safest Lithium Technology.  
Integrated Battery Management System(BMS).

**PERFORMANCE** Long Cycle Life > 3000cycles@80%DOD.  
High Density, High Discharge Current  
High Temperature Range, Light Weight  
Maintenance Free, Fast Charging  
Environment Friendly



TL 48-100(51.2V 100Ah)

### BATTERY DATA SHEET

#### Electrical Parameters

Nominal Voltage	51.2V
Rated Capacity	100Ah
Energy	5120Wh
Resistance	≤65mΩ
Efficiency	0.99
Cycle Life	>3000cycles @1C,80%DOD
Self Discharge	2% per Month
Modules in Series/Parallel	1P16S

#### Mechanical Parameters

Dimension(L×W×H)	555x320x220mm
	21.85x 12.6x 8.66"
Weight	53.5kg(118.0bs)
Terminal Type	Anderson 120A
Battery Housing	Carbon Steel
Housing Protection	IP56
Cell Type-Chemistry	LiFePO <sub>4</sub> Cell
SOC Display(Optional)	Yes

#### Discharge Parameters

Continuous Discharge Current	100A
Pulse Discharge Current	150A (≤30S)
Recommended Volt.	48V
BMS Discharge Cut-off Voltage	40V
Reconnect Voltage	43.2V
Short Circuit Protection	300-800us

#### Charge Parameters

Charge Method	CC-CV
Charge Voltage	57.6~58.4V
Recommended Float Voltage	55.2V
Recommended Charge Current	20A
Maximum Charge Current	50A
BMS Charge Cut-off Voltage	58.4V

#### Temperature Parameters

Discharge Temperature	-20 to 60 °C (-4 to 140 °F )
Charge Temperature	0 to 60 °C (32 to 140 °F )
Storage Temperature	-40 to 70 °C (-40 to 158 °F )
BMS High Temperature Cut-off	85°C (185 °F )



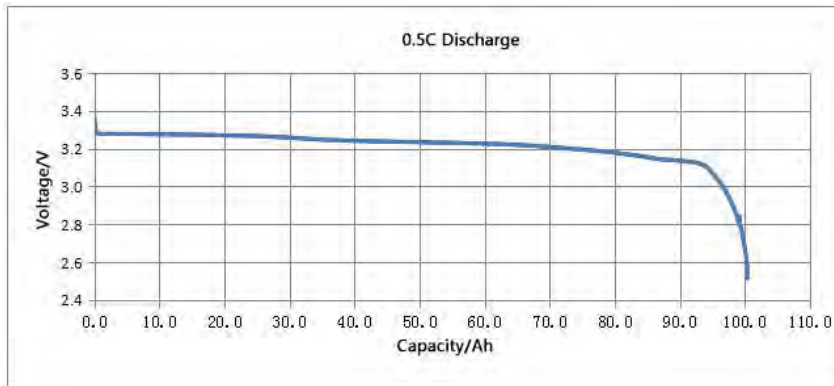
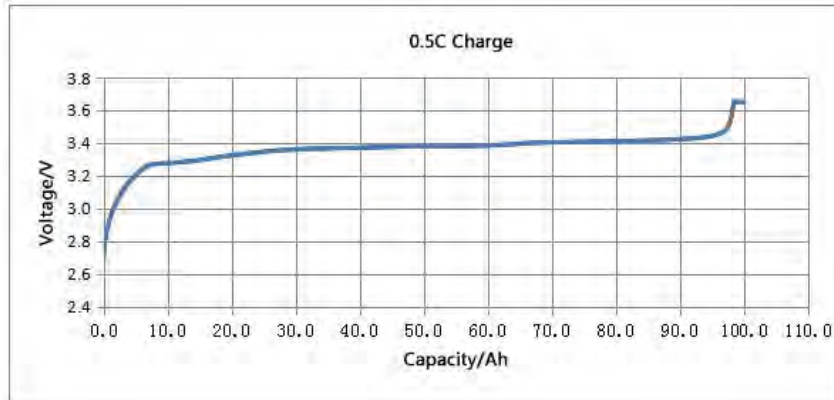
**1300 START ME | 1300 782 786 | info@lionbatteries.com.au | www.lionbatteries.com.au**

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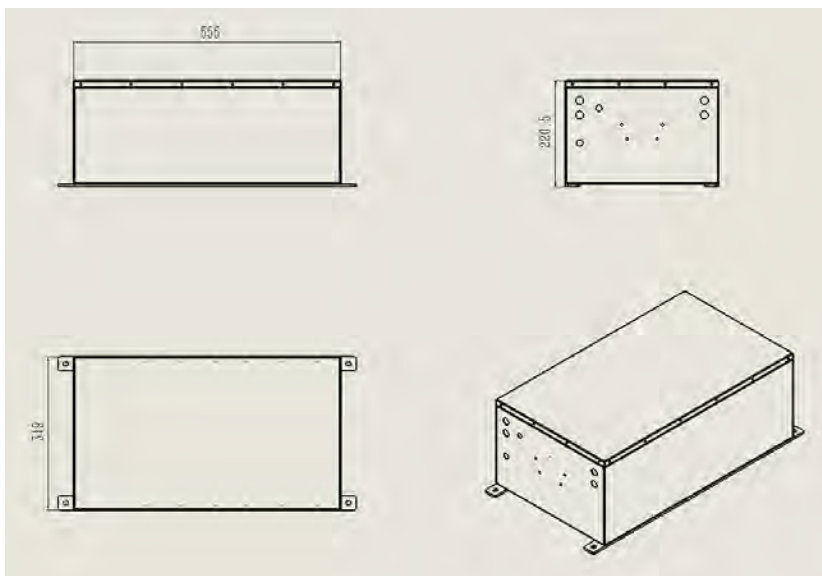


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## Cell Performance Characteristics



## Battery Dimension



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