

# EPL-100BT-36V

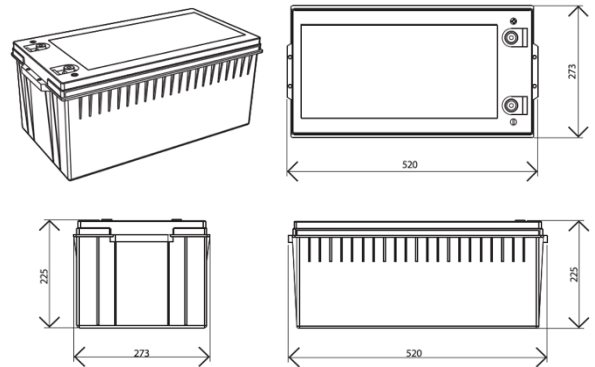
## ePOWER B-TEC 36V 100Ah Lithium Battery



[www.a1batterypro.com.au](http://www.a1batterypro.com.au)

### Features:

- Designed and intended for use in deep cycle applications where a single battery is required that meets the amp hour capacity.
- LiFePO4 prismatic cell
- Battery Management System – Protects the battery from over charge, over discharge, over temperature & short circuit.
- Capable to be paralleled to a second ePOWER B-TEC battery of the same size. For maximum performance and lifespan of your ePOWER B-TEC battery, no more than 2 batteries should be connected together to increase your overall capacity. Overall loads when paralleled should not exceed the current limits of a single batteries BMS.
- Able to accept a maximum inverter capacity of 1000W.
- Smart Phone Monitoring System – By downloading the Android™ or Apple® app, you can monitor



Battery Capacity, Battery Voltage, Battery Current (Amps), Battery State of Charge (SOC), Battery State of Health (SOH), Battery Status, Individual Cell Voltage, Battery Temperature, Battery Cycles, Battery Alarms & Battery Event Information.



Two Great Stores to choose from...

7 Cemetery Rd,  
Mackay QLD 4740  
Phone 07 4957 6123

Unit 16, 547 Woolcock St,  
Mt Louisa, Townsville QLD 4814  
Phone 07 4774 7344

## Specifications:

Normal Specification	
Nominal Voltage	38.4V
Nominal Capacity	100Ah
Cycle Life (DOD – 80% under controlled conditions)	≥ 2000 Cycles
Standard Charge Specification (Lithium profile charger required)	
Battery Charge Temperature	0~45°C
Normal Charge Voltage CV/CC*	43.20~43.80V
Standby (Float) Voltage	40.5~41.40V
Maximum Charge Current	50A @ 25°C for 30mins
Recommended Charge Current for Maximum Life	≤33A
Standard Discharge Specification	
Battery Discharge Temperature	-20~60°C
Battery Output Voltage Range	33.00~43.80V
Maximum Discharge Current	100A @ 25°C ± 5°C for 30mins
Pulse Discharge Current	450A for 1.0s
Discharge Cut-off Voltage	≤33.60V
Circuit Protection	The battery is supplied with a LiFePO4 Battery Management System BMS
Over-Charge Protection	
Over-charge Protection Per Cell	3.90V ± 0.03V
Over-charge Release Per Cell	3.60V ± 0.05V
Over-charge Release Method	Discharge below release voltage
Over-Discharge Protection	
Over-discharge Protection Per Cell	2.80V ± 0.05V
Over-discharge Release Per Cell	3.20V ± 0.05V
Over-discharge Release Method	Apply Charge/Voltage ≥38.4V
Over Current Protection	
Discharge Over Current	110A for 30s – 450A for 1s
Protection Reset Time	5s Auto Release
Over Current Release Method	Disconnect Load
Over Temperature Protection	
Battery Discharge Over Temperature	Protection to 65°C ± 5°C Release at 50°C ± 5°C
Battery Charge Over Temperature	Protection to 55°C ± 5°C Release at 45°C ± 5°C
Short Circuit Protection	Auto release after 5s
Mechanical Characteristics	
Dimensions (L x W x H)	519 x 273 x 222mm
Weight	Approx. 37.7kg
Case Construction	Hi Impact ABS Plastic
Storage Information	
Self-discharge Rate	≤ 3% Per Month