



EPL-100BT-24

B-TEC 24V 100Ah
ePOWER Lithium Battery

5 YEARS WARRANTY FOR PRIVATE USE, 2 YEARS WARRANTY FOR COMMERCIAL USE

FEATURES

The Enerdrive B-TEC battery is perfect for camper trailers, 4WD's (AUX battery), caravans, small water craft, low power communication sites or any other application that requires the use of a single deep cycle battery that meets the amp hour capacity.

- LiFePO4 prismatic cell.
- Battery Management System – Protects the battery from over charge, over discharge, over temperature & short circuit.
- 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.
- Capable to be paralleled to a second B-TEC battery of the same size. For maximum performance and lifespan of your 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 battery's BMS.
- Able to accept a maximum inverter capacity of 2000W only. Exceeding the maximum inverter capacity can damage the BMS Management within the battery.
- Not to be used for under bonnet applications.
- **This product is not suitable to mount anywhere with a possibility of being exposed to the elements. It is an electronic product designed for internal use ONLY.**

Specifications:

SKU	EPL-100BT-24V
Nominal Voltage	25.6V
Nominal Capacity	100Ah
Cycle Life (DOD – 80% under controlled conditions)	>2500 Cycles
Standard Charge Specification (Lithium profile charger required)	
Battery Charge Temperature	0 ~ 45°C
Normal Charge Voltage CV/CC*	28.80 ~ 29.20V
Standby (Float) Voltage	27.00 ~ 27.60V
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	22.00 ~ 29.20V
Maximum Discharge Current	100A @ 25°C ± 5°C for 30mins
Pulse Discharge Current	450A for 1.0s
Discharge Cut-off Voltage	≤22.40V
Circuit Protection	The battery is supplied with a LiFePO4 Battery Management System BMS that can monitor and optimize each single prismatic cell during charge & discharge, to protect the battery pack from overcharge, over discharge & short circuit. Overall, the BMS helps to ensure safe and accurate operation of the battery.
Over-Charge, Over-Discharge, Over Current & Over Temperature 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 Per Cell	2.80V ± 0.05V
Over-discharge Release Per Cell	3.20V ± 0.05V
Over-discharge Release Method	Apply Charge/Voltage ≥25.6V
Discharge Over Current	110A for 30s – 450A for 1s
Protection Reset Time	5s Auto Release
Over Current Release Method	Disconnect Load
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	Length 485mm, Width 170mm, Height 245mm
Weight	Approx 25.0 Kg
Storage Information	
Temperature & Humidity Range	≤ 30 days -20°C.~ 60°C, 5.~ 75% RH ≥ 90 days -10°C.~ 45°C, 5 ~ 75% RH
Self-discharge Rate	≤ 3% Per Month

Note: Specifications subject to change without notice.