

## BTLi 12-100B (12V, 100Ah, incl. Bluetooth)

The batteries of the BTLi series are maintenance-free lithium-ion rechargeable batteries (LiFePO4) with a service life expectancy of over 2000 cycles and only 40% of the weight of lead-acid batteries. The MAIN APPLICATIONS are RVs, but the batteries are also used for wheelchairs and e-scooters, tools, UPS systems, DC power supplies, emergency lighting, security systems and as solar or wind energy storage.

The BTLi 12-100B also has a built-in Bluetooth interface, which can be used to monitor the charge level and battery status at any time via Android or IOS app.

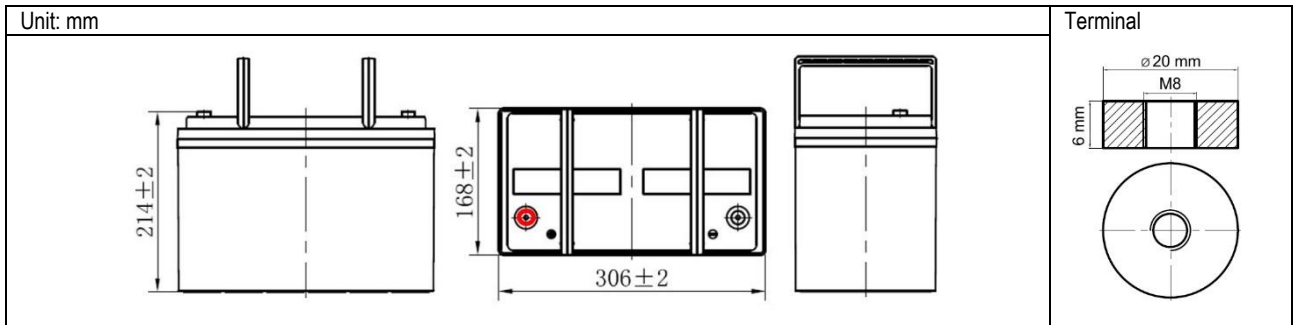


Specifications		
<b>Battery type</b>		LiFePO4
<b>Nominal voltage</b>		12.8V
<b>Nominal capacity / Energy</b>		100.0Ah / 1280Wh
<b>Cycle Life</b>		>2000 cycles @1C 100%DOD
<b>Dimensions</b>	Length	306 ±2mm
	Width	168 ±2mm
	Hight	214 ±2mm
<b>Weight</b>		12.0 kg
<b>Connections</b>		M8 Screw connection, contact surface Ø 20 mm
<b>Cathode material</b>		LiFePO4
<b>Material of the anode</b>		Graphite
<b>Material of the electrolyte</b>		LiPF6
<b>Enclosure material / enclosure class</b>		Acrylnitril-Butadien-Styrol (ABS) / IP65
<b>Permissible mounting position</b>		Max. 90° to upright normal position (see picture above right)
<b>Internal resistance</b>		≤50mΩ
<b>Self-discharge</b>		<3% (@ 25°C / month)
<b>Charging</b>	<b>Charging voltage</b>	14.6 ± 0.2V
	<b>Charging process</b>	0.2 C to 14.6 V, then 14.6 V, charging current to 0.02C (CC/CV)
	<b>Charging current</b>	50A
	<b>Max. Charging current</b>	100A
	<b>End-of-charge voltage</b>	15.0V ± 0.2V
<b>Discharging</b>	<b>Nominal discharge current</b>	100A
	<b>Max. Discharge current</b>	150A (< 1s)
	<b>End-of-discharge voltage</b>	8.8V
<b>Operating temperature ranges</b> (At 60±25% relative humidity)	Discharging temperature	0°C – 60°C
	Charging temperature	0°C – 45°C
	Storage temperature (fully loaded)	0°C – 40°C
<b>Recommended operating temperature</b>		Approx. 20°C

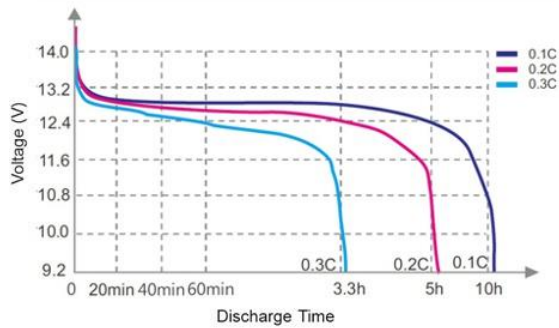
### Special features

- Extremely cycle resistant: up to 20 times longer cycle life than lead-acid batteries, minimizing replacement costs and reducing total cost of ownership.
- Excellent for main application: RVs
- Low weight: Approximately 40% of the weight of a comparable lead-acid battery.
- Built-in Bluetooth interface for monitoring with Android or IOS App
- Built-in Battery Management System (BMS)
- "Drop-in" replacement for lead-acid batteries.
- Parallel connection of up to 4 batteries possible, but no series connection
- Higher power: Delivers twice the power of a lead-acid battery, even at high discharge, rates, while maintaining energy capacity.
- Wide temperature range: 0°C~60°C.
- Absolute intrinsic safety: By using lithium iron phosphate chemistry

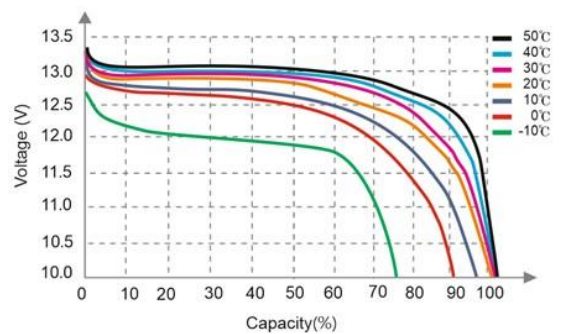
## Dimensions



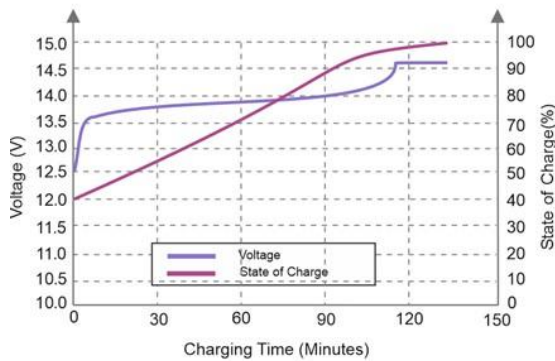
### Different Rate Discharge Curve(25°C)



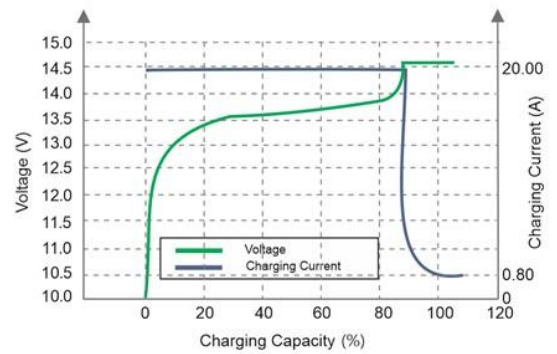
### Different Temperature Discharge Curve(0.5C)



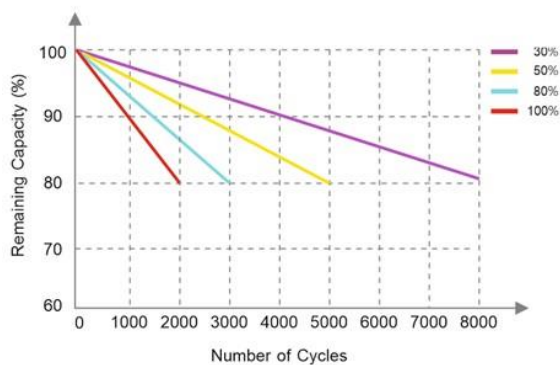
### State of Charge Curve(0.5C, 25°C)



### Charging Characteristics(0.5C, 25°C)



### Different DOD Discharge Cycle Life Curve(1C)



### Different Temperature Self Discharge Curve

