



Voltage	: 12.8 Volt
Appr. dimensions	: 181x77x167 mm (LxWxH)
Terminal	: Insert M5
Container & lid	: Flame Retardant ABS
Operating temperature	
Charge	: -30°C ~ 60°C
Discharge	: -30°C ~ 60°C
Storage	: -30°C ~ 50°C

The rechargeable pbq LiFe battery employs lithium iron phosphate as its cathode and carbon as its anode. The electrolyte salt dissolves in organic compound solvent and the electrolyte system is absorbed by the separators and the plates. All batteries of this type have a special one-way valve to allow the disaggregate-tire solvent gases to escape.

Each individual cell is spiral wound and formed to a prismatic cell. The nominal cell voltage is 3.2V. Four cells are placed in series in order to create 12.8V.

To protect the battery from over charging and over discharging the battery is equipped with a internal battery management system (BMS). The BMS also takes care of the balance between the internal cell.

To avoid overheating of the battery, a special insertion, called PTC, is added to the electrolyte. This additive neutralizes the electrolyte and disables the battery permanently if the internal temperature exceeds 80°C.

Specifications		pbq 16-12 LiFe	pbq 18-12 LiFe	pbq 20-12 LiFe
Nominal Capacity		16 Ah	18 Ah	20 Ah
Weight (appr.)		2.8 Kg	2.93 Kg	3.12 Kg
Internal Resistance		<45mΩ	<30mΩ	<20mΩ
Specific Energy		73 Wh/Kg	79 Wh/Kg	82 Wh/Kg
Standard Discharge at 25°C	Max. Cont. Current	30A	30A	30A
	Max. 30 sec. pulse	40A	40A	40A
	Cut off Voltage	8.0V	8.0V	8.0V
Standard Charge	Charge Voltage	14.8V	14.8V	14.8V
	Float	13.8V	13.8V	13.8V
	Style	CC/CV	CC/CV	CC/CV
	Recommended Charge Time	8A	9A	10A
		2.5h	2.5h	2.5h

Note: Do not use more than three batteries in series

**General features**

- More than 2000 deep cycles, pbq LiFe offers the lowest life-cycle costs, using a graphite anode.
- The battery may be installed in any direction, upside down is not recommended
- Excellent high-rate discharge an recharge capabilities
- Third the weight of an equivalent lead acid battery
- Long service life in floating application
- Maintenance free operation
- Excellent safety
- Environmental friendly due to the absence of heavy metals

