

Lithium Ferro Phosphate Batteries

pbq 16-12 / 18-12 / 20-12 LiFe General Purpose Battery

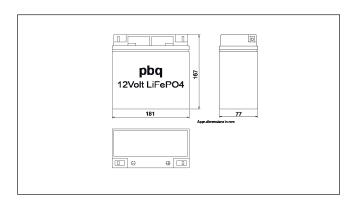


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Voltage : 12.8 Volt

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

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	Max. Cont. Current	30A	30A	30A
Discharge	Max. 30 sec. pulse	40A	40A	40A
at 25°C	Cut off Voltage	8.0V	8.0V	8.0V
	Charge Voltage	14.8V	14.8V	14.8V
Standard	Float	13.8V	13.8V	13.8V
Charge	Style	CC/CV	CC/CV	CC/CV
	Recommended	8A	9A	10A
	Charge Time	2.5h	2.5h	2.5h

Note: Do not use more than three batteries in series

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 oneway 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 equiped 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.

General features

- More than 2000 deep cycles, pbq LiFe offers the lowest life-cycle costs, using a grafite 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
- Maintainance free operation
- Excellent safety
- Environmental friendly due to the absence of heavy metals

