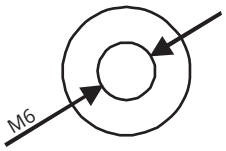
pbq®
professional battery quality

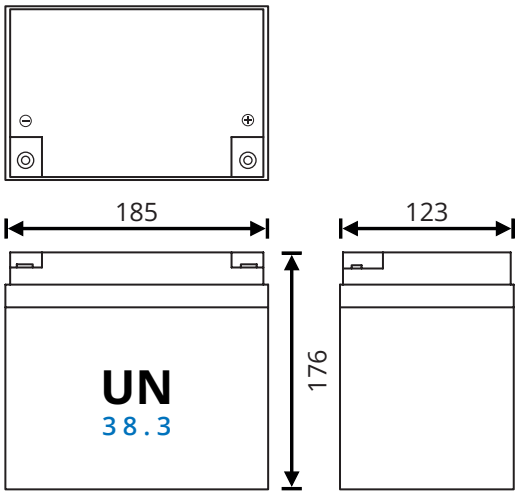
LF 30-12 - LiFePO4 Lithium Series

Lithium Battery

No image
currently available



M6 Insert



Technical Specifications

Nominal voltage	12.8V
Nominal capacity (25°C)	1Hr: 30.0Ah
Energy	384Wh
Internal resistance	≤15mΩ (@50% SOC)
Maximum charge current	30A
Continuous discharge current	30A
Maximum discharge current	N/AA (max. 3 sec)
Number of cycles	8000 (50% D.O.D.)
Charge Voltage	14.2V
Charge temperature range	0°C ~ 45°C
Discharge temperature range	-20°C ~ 60°C
Standard terminal	Insert M6
Casing material	ABS (N/A)
Dimensions Length	185 mm
Dimensions Width	123 mm
Dimensions Height	167 mm
Approximate Weight	3.2 kg

Typical applications

- Electric vehicles
- Mobility scooters
- Electric wheelchairs
- Medical applications
- AGV & internal logistics
- Renewable energy

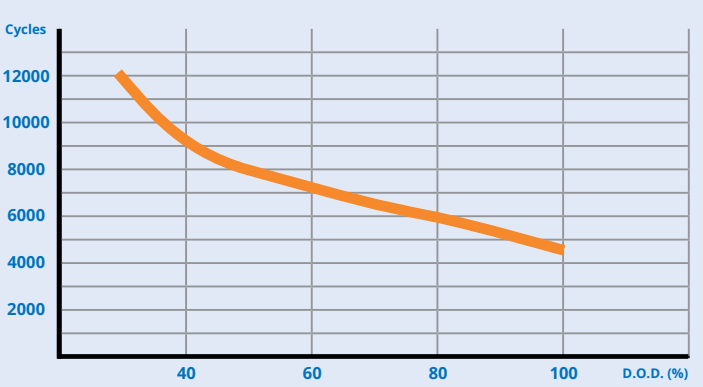
Features

- Battery UN38.3 and CE certified
- UN3480, Class 9 shipping classification
- BMS protection
- Bluetooth connectivity
- Built-in heating film
- ABS Casing
- Internal cell balancing
- Maintenance free
- Can be used or stored in any position
- Suitable for interim charging
- Max. 2 in series, otherwise parallel connection only

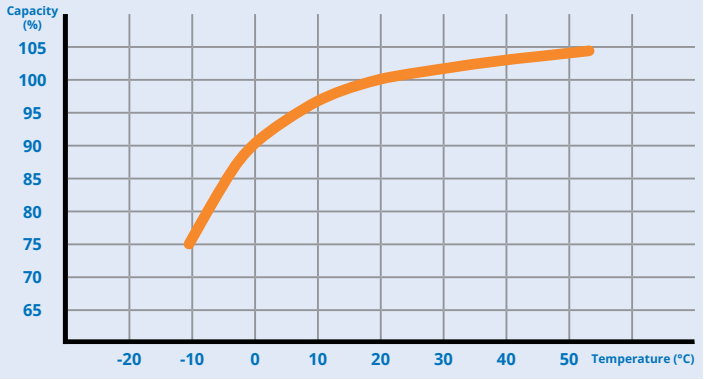
BMS Specifications

Charge cut-off Voltage	15.0V (3.75V/Cell)
Reconnect Voltage	14.2V (3.55V/Cell)
Balancing Voltage	13.2V (3.3V/Cell)
Discharge cut-off Voltage	8.8V (2.2V/Cell)
Reconnect Voltage	10.4V (2.6V/Cell)
Short circuit protection	N/A ~ N/A µs
Discharge cut-off Current	70A (±10A; 1s)
Temperature cut-off	65°C
Reconnect temperature	50°C

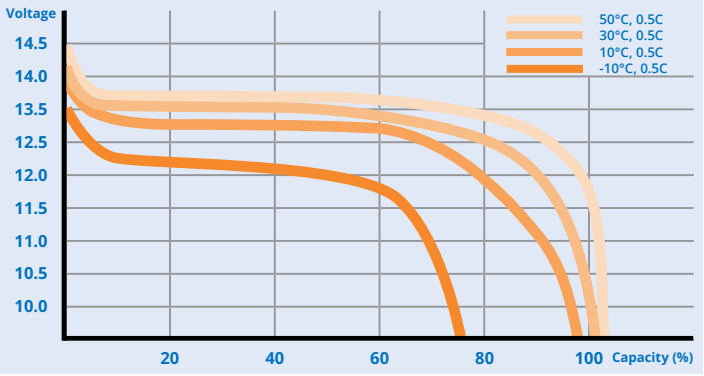
Service life vs Depth of Discharge



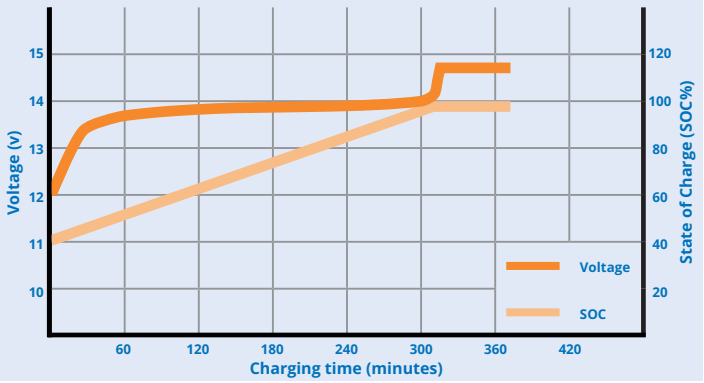
Temperature effects on capacity



Discharge characteristics



Battery charge characteristics (0.2C Charge)



Certifications and Standards

UN 38.3 Battery

IEC 61000 Battery

IEC 62619 Battery

ISO 9001

ISO 14001

ISO 45001

RoHS 2011/65/EU Annex II + Annex (EU)2015/863 + Annex (EU)2017/2102

BLUETOOTH CONNECTIVITY

CE

Lithium LiFePO4 Series

The pbq Lithium Ferro Phosphate battery is a product with great performance. It is even more. It is a total concept, serving all the parties downstream; from the very first production step, to the user, to transportation and even to the recycler. The pbq LiFePO4 concept embraces a long service life, optimal energy density in both volume as well as in weight and a high grade of safety. The battery contains everything you need. Just connect it to your application.

LiFePO4 batteries are ideal for deep cycle applications such as; electric scooters and vehicles, steps, golf carts, energy storage and tools. High power pbq LiFePO4 batteries has light weight and optimized size. Light weight means energy would be saved due to total weight reduced, and weight reduced also means long driving distance. Optimized size batteries are suitable to replace lead acid batteries. LiFePO4 batteries enlarges the range of your applications!

LiFePO4 Service Life

The pbq LiFePO4 battery has a service life of more than 2000 cycles at 100% depth of discharge and a remaining capacity of 80%! This long lasting cyclic use offers an uninterrupted use of the application. It also reduces service costs, downtime of the equipment and replacements of the battery. Just calculate what this will save over time and see that it is worth to invest in.