



Qoltec LiFePO4 lithium iron phosphate battery | 12.8V | 12Ah | 153.6Wh | BMS

Product code: 53701

The Qoltec 12Ah LiFePO4 battery is a reliable source of energy for your power needs. A maintenance-free, environmentally friendly, fully safe product. Adapted for cyclic discharge and recharge. High efficiency, long service life and low weight are just a few of the advantages that the LiFePO4 battery offers. The product has a built-in BMS protection system.

ENERGY AT THE HIGHEST LEVEL - AN INVESTMENT THAT PAYS OFF

LiFePO4



Thermal and chemical stability

If you are looking for a long-lasting energy source, the LiFePO4 battery from Qoltec will be a very good investment. This type of battery is all about thermal and chemical stability, allowing you to work in very extreme conditions without compromising the performance of the battery and allowing it to retain its full capacity.

3000 CYCLES OF RELIABLE ENERGY - CHOOSE DURABILITY WITH LIFEPO4



3000 charge and discharge cycles

LiFePO4 batteries are durability and performance in one :

- **100% depth of discharge**,
- very low self-discharge rate,
- **no memory effect**, very efficient cycling and buffer operation,
- longer service life - more than 3000 charge and discharge cycles,
- 100% maintenance-free, no need to top up the electrolyte,
- the higher energy density compared to, for example, lead-acid batteries of the same capacity translates into significantly lower weight,
- **environmentally safe** - no toxic gases or chemicals are released,
- can be operated in any position, no need to set it horizontally,
- shock-resistant.



Efficient and deep discharge resistant

Our batteries are **extremely efficient and resistant to deep discharges**. They are characterised by a **longer service life while maintaining their properties of more than 3000 charge and discharge cycles**, and this gives them a major advantage over other batteries currently available on the market. In addition, they are **non-polluting, recyclable, non-toxic** and non-flammable.

POWER YOU CAN RELY ON



Wide range of applications for LiFePO₄ batteries

The wide range of advantages and functional benefits of lithium-iron-phosphate batteries means that they will meet the expectations of even the most demanding users and are perfect for :

- in photovoltaics, as power storage, off-grid systems,
- uninterruptible power supplies, UPS, voltage converters,
- alarm systems, access control systems,
- campers, trailers,
- electric cars,
- yachts, boats, motorboats,
- golf carts, wheelchairs,
- emergency lighting,
- power tools, lawnmowers,
- electric toys, quads.



BMS OR INTELLIGENT BATTERY MANAGEMENT SYSTEM



Battery Management System

BMS for intelligent battery management system

All Qoltec LiFePO4 batteries are equipped with a BMS, which is an essential element of battery protection. It constantly monitors the operation of the battery, protecting the cells from overheating, overcharging and deep discharge, cutting off the power supply when values are exceeded that pose a potential danger to the battery and connected devices.

CONFIDENCE CONFIRMED BY A GUARANTEE



Quality Guarantee - Long-lasting Power, Reliable Performance

Do you care about the high quality of the product you are buying? Our solutions will meet your expectations. The LiFePO4 batteries we offer come with a 24-month warranty valid from the date of purchase.

TECHNICAL DATA

Producer	Qoltec
Battery type	LiFePO4
Power	153.6Wh
Capacity	12Ah
Nominal voltage	12.8V
Rating limited voltage	10.4V~14.6V
Type of charging	CV
Battery charging voltage	14.4 0.2V
Number of charging cycles	Retains more than 80% of capacity even after 3000 charging cycles
Internal resistance	21m
Connector type	T2
Maximum charging current	6A
Maximum discharge current	12A
Standard charging current	2.4A (0.2C)
Standard discharging current	6A (0.2C)
Cut off voltage	10.4V
Protection	Battery with BMS
Battery overcharge protection	3.65V
Application	Photovoltaics, Off-grid systems, Energy storage, Emergency power supply, Electric cars, Campers, Yachts, Wheelchairs, Power tools, Emergency lighting
Additional information	The maximum number of parallel connections is 4. The maximum number of series connections is 4. When connecting batteries in series, ensure that the voltage differences between the batteries do not exceed 1V. We do not recommend connecting batteries from different batches or brands, as differences in BMS systems and cells may affect their performance.
OTHER PARAMETERS	
Colour	Black, blue
Operating temperature range	Discharge : -15 60 Charge : 0 60 Storage : -15 50
Storage temperature range	1 month - 20 ~ 45 3 months - 20 ~ 45 1 year - 20 ~ 20
Storage humidity	45 ~ 85%
IP Rating	IP65
Dimensions (D/L x W x H)	100 x 150 x 100mm
Package depth / length [mm]	125
Package width [mm]	170
Package height [mm]	120
Net weight [kg]	1.410
Gross weight [kg]	1.467
Certificate	CE
Warranty	24 month
EAN code	5901878537016