



Qoltec LiFePO₄ lithium iron phosphate battery | 12.8V | 24Ah | 307.2Wh | BMS

Product code: 53702

The Qoltec 24Ah 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.

GET EFFICIENCY AT THE HIGHEST LEVEL



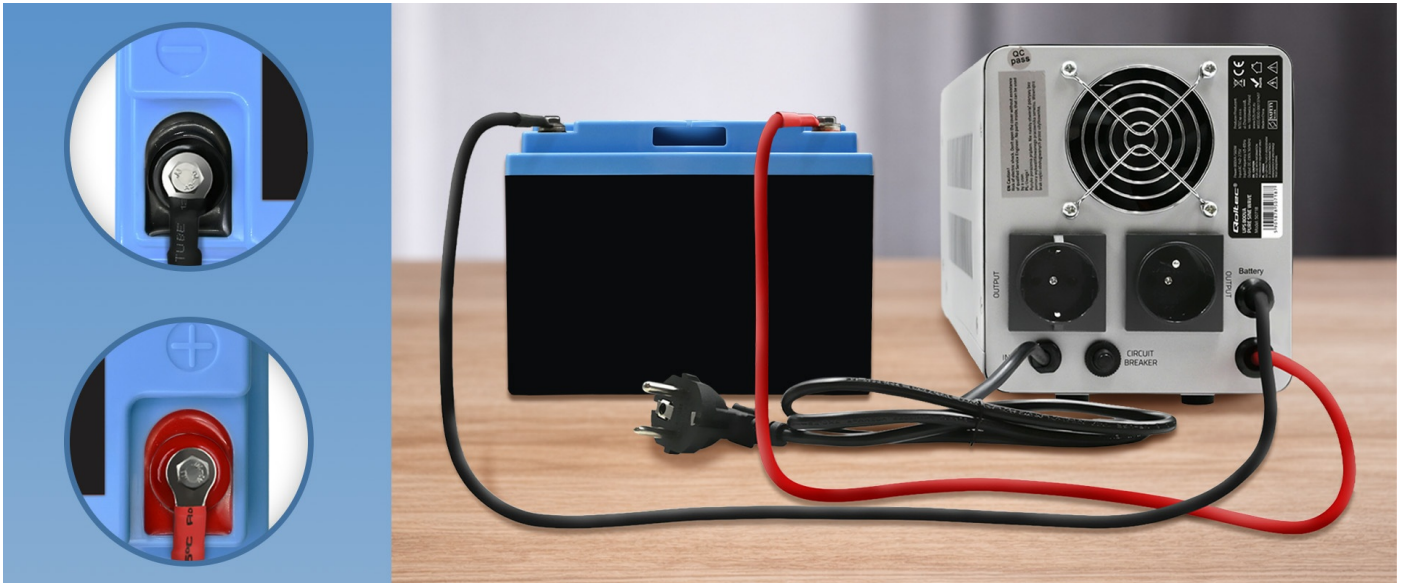
If you are looking for a safe and long-lasting energy source, the LiFePO₄ battery from Qoltec will be a very good investment. This type of battery is all about **thermal and chemical stability**, allowing you to work in very extreme conditions without compromising the performance of the battery and allowing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

ADVANCED LIFEPO4 TECHNOLOGY - MORE POWER, LESS CHARGING



Our batteries are **extremely efficient and resistant to deep discharges**. They are characterized by a **longer service life while maintaining their properties of more than 2000 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**.

ENSURE A RELIABLE SOURCE OF ENERGY



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% non-combustible battery - no risk of overheating, arson or explosion,
- 100% maintenance-free, no need to top up the electrolyte,
- lower weight and at the same time higher energy density compared to e.g. lead acid batteries,
- **environmentally safe** - no toxic gases or chemicals are released,
- can be operated in any position, no need to set it horizontally,
- shock-resistant.

APPLICATION OF 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

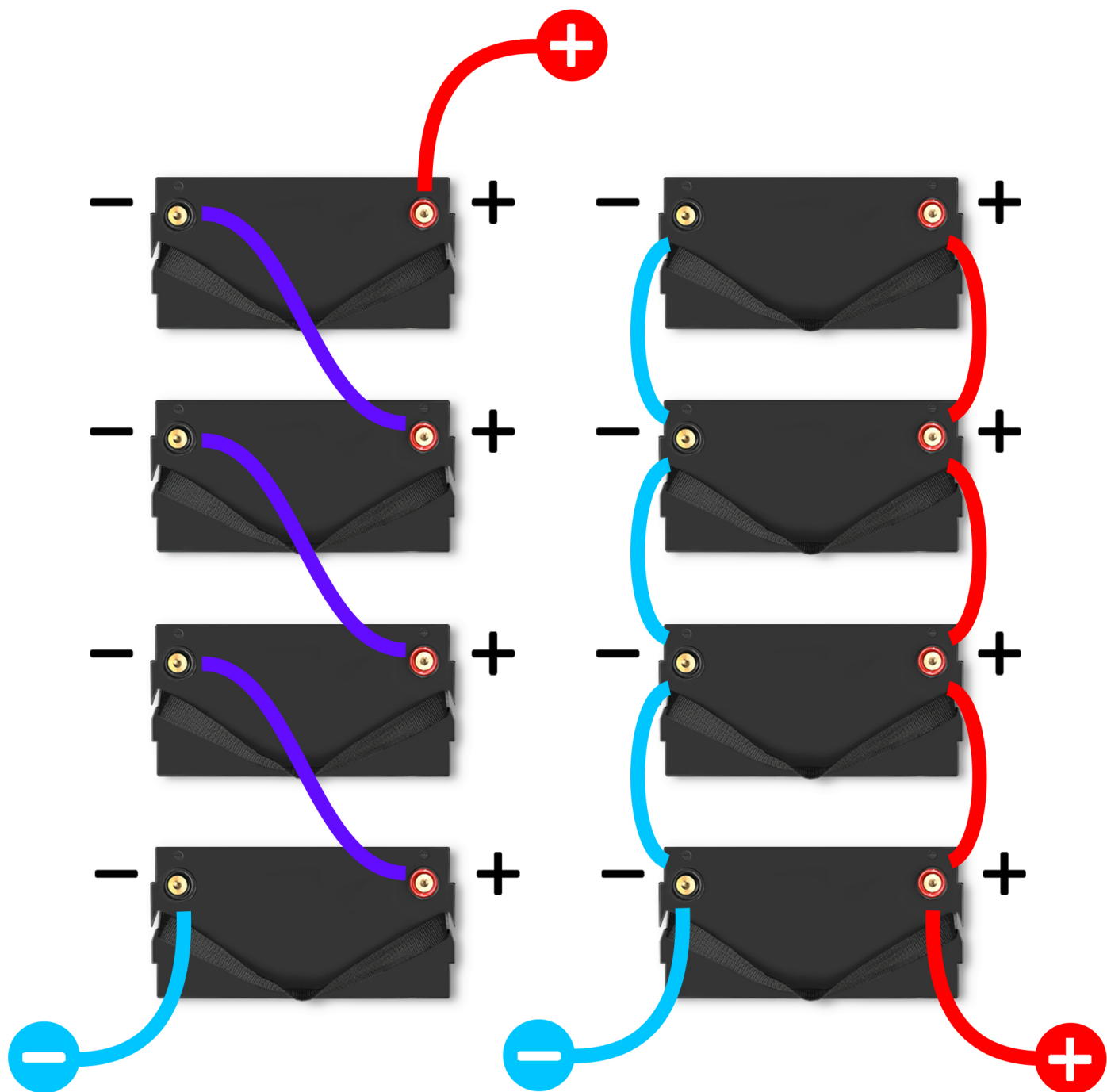


Battery Management System

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.

HOW TO CONNECT LIFEPO4 BATTERIES CORRECTLY ?

Our LiFePO₄ batteries can be connected in series and parallel. The only condition to be fulfilled in order not to damage the battery is to use a battery with the same voltage, capacity and degree of wear. If you want to increase the voltage, you must connect the battery in series, i.e. (+) with (-). If we want to increase capacity, we connect in parallel (+) with (+) and (-) with (-).



A maximum of 4 batteries can be connected together. So, for example, connecting in parallel four batteries with a capacity of 24Ah and a voltage of 12.8V will increase the capacity to 96Ah and the voltage will remain the same at 12.8V, in the case of a series connection, the voltages will add up to 51.2V and the capacity will remain the same at 24Ah. The following illustrations show how to correctly connect the batteries together.

CONFIDENCE CONFIRMED BY A GUARANTEE

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	307.2Wh
Capacity	24Ah
Nominal voltage	12.8V
Rating limited voltage	14.6V
Type of charging	CC-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	60 m
Connector type	M5
Maximum charging current	12A
Maximum discharge current	24A
Standard charging current	4.8A
Standard discharging current	4.8A
Cut off voltage	10.0V
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
OTHER PARAMETERS	
Colour	Black, blue
Operating temperature range	Charging : 0~45 Discharge : - 20~60
Storage temperature range	1 month - 20 ~ 45 3 months - 20 ~ 45 1 year - 20 ~ 20
Storage humidity	60 25%
IP Rating	IP55
Dimensions (D/L x W x H)	165 x 175 x 125 mm
Package depth / length [mm]	165
Package width [mm]	175
Package height [mm]	125
Net weight [kg]	2.818
Gross weight [kg]	2.818
Certificate	CE
Warranty	24 month
EAN code	5901878537023