



Qoltec LiFePO4 lithium iron phosphate battery | 12.8V | 100Ah | 1280Wh | Bluetooth | BMS

Product code: 53714

The Qoltec 100Ah LiFePO4 battery is a reliable source of energy for your power needs. It is maintenance-free, environmentally friendly, and completely safe. It is designed for cyclic discharge and charging. High performance, long service life and low weight are just a few of the advantages that distinguish the LiFePO4 battery. The product has a built-in BMS security system.

GET EFFICIENCY AT THE HIGHEST LEVEL

LiFePO4
Bluetooth



Thermal and chemical stability – reliability in all conditions

If you are looking for a truly durable power source, a Qoltec LiFePO4 battery will be a very good investment. This type of battery is primarily characterised by **thermal and chemical stability**, which allows it to operate in very extreme conditions without negatively affecting its performance and allowing it to retain its full capacity.

Resistance to overheating and low temperatures

No risk of ignition or explosion, as in traditional lithium batteries

Constant capacity and voltage throughout its service life

Can operate in demanding conditions – motorhome, boat, off-grid system

ENSURE A RELIABLE SOURCE OF ENERGY



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% 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.

ADVANCED LIFEPO4 TECHNOLOGY - MORE POWER, LESS CHARGING



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.

FULL CONTROL VIA BLUETOOTH

Control your energy via Bluetooth

Monitor your battery status in real time using the mobile app—you have full control over the battery parameters—no need to open the casing or use meters.

Thanks to Bluetooth communication, you can monitor:

- state of charge (SOC),
- voltage, current and temperature,
- number of charge cycles,
- current BMS status.

This is a convenient and modern solution that allows you to fully control the battery's performance without the need for additional meters.

FULL PERFORMANCE IN ALL CONDITIONS – 12.8V LIFEPO4 BATTERY WITH BMS



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	1280Wh
Capacity	100Ah
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	7m
Connector type	M8
Maximum charging current	50A
Maximum discharge current	100A
Standard charging current	20A
Standard discharging current	50A
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	Bluetooth (dedicated XiaoXiangElectric application) The maximum number of parallel connections is 4. The maximum number of series connections is 4. For series connections, ensure that the voltage differences between 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	Blue, black
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%RH
IP Rating	IP65
Dimensions (D/L x W x H)	165 x 260 x 210 mm
Package depth / length [mm]	210
Package width [mm]	360
Package height [mm]	260
Net weight [kg]	10.000
Gross weight [kg]	10.500
Certificate	CE
Warranty	24 month
EAN code	5901878537146