Goltec LiFePO4 lithium iron phosphate battery | 12.8V | 50Ah | 640Wh | BMS

Product code: 53704

The Goltec 50Ah 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

Thermal and chemical stability

If you are looking for a safe and long-lasting energy source, the LiFePO4 battery from Goltec 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.

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.

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**

APPLICATION OF LIFEPO4 BATTERIES

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	640Wh
Capacity	50Ah
Nominal voltage	12.8V
Rating limited voltage	10.6V-14.6
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	11m
Connector type	M8
Maximum charging current	25A
Maximum discharge current	50A
Standard charging current	10A
Standard discharging current	25A
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 batteries connected in parallel is 4 units. The maximum number of batteries connected in series is 4 units. When connecting batteries in series, make sure that the voltage differences between the batteries do not exceed 1 V. We do not recommend connecting batteries from different batches or brands, as differences in BMS systems and cells may affect their operation.
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%RH
IP Rating	IP65
Dimensions (D/L x W x H)	135 x 225 x 210 mm
Package depth / length [mm]	185
Package width [mm]	210
Package height [mm]	230
Net weight [kg]	5.000
Gross weight [kg]	5.500
Certificate	CE
Warranty	24 month
EAN code	5901878537047