



Qoltec Energy storage LiFePO₄ battery | 5kWh | 24V | BMS | LCD

Product code: 53877

Qoltec brand energy stores can safely store energy stored from photovoltaic. Using modern LiFePo₄ technology, it can achieve several thousand charge and discharge cycles. The built-in BMS-type software guarantees safe use by controlling the battery's charge and discharge levels. It has RS485 and RS232 ports.

STORE UP ENERGY AND USE IT WHENEVER YOU WANT!



Qoltec energy storage will significantly increase the functionality of the photovoltaic installation and provide a stable and environmentally friendly power source for devices in your home. In an efficient way, it can accumulate excess energy acquired during the day, which we are not able to consume at a given time to power it at a later time, such as during power outages.

WHY STORE ENERGY ?



With an energy storage facility :

- You can **make the most of the energy you produce and use it at a later time**, such as on cloudy days,
- You gain **energy independence** and security in case of grid failure, the storage will also work well in a place where there is no access to the grid,
- You significantly **reduce the effects of overloading the power grid** by storing surplus energy,
- The storage regulates power and voltage and removes interference that reduces the quality of the energy produced,
- It has a built-in **LiFePO4 lithium-iron-phosphate battery**.

HOW ENERGY STORAGE WORKS ?



The energy produced from the photovoltaic system first satisfies the current consumption, the excess production if greater than the consumption goes to the energy storage until it is fully charged and can be used when the production stops or is lower than the demand. It is worth adding that the stored energy is available all the time. When the storage is discharged, electricity is drawn from the grid. Surplus energy can be sent to the grid.

MODERN LIFEPO4 TECHNOLOGY



Our energy storage units are equipped with **extremely efficient and deep discharge** resistant lithium-iron-phosphate batteries - **LiFePO₄**. The advantages of the battery are undoubtedly its long service life, which is up to several **thousand charge and discharge cycles**, its light weight and lack of memory effect. In addition, these batteries **do not pollute the environment**, are non-toxic and non-flammable, which increases the safety of use in photovoltaics.

BMS THAT IS INTELLIGENT BATTERY MANAGEMENT SYSTEM



Battery Management System

An important part of battery protection is the BMS, which constantly monitors and manages the operation of the equipment. It protects each battery cell from overheating, overcharging, under-voltage and deep discharge, which can damage the equipment.

FULL SAFETY OF USE



The product is equipped with a number of protections : **UVP protection** - protects devices from too low voltage at the output, which affects the stability of connected devices, **SCP protection** - is a short circuit protection, **OVP protection** - is protection against too high output voltage and damage to connected devices, **OCP protection** - is protection against too high current on the line, **OTP protection** - is protection against overheating.

CONFIDENCE CONFIRMED BY A WARRANTY

Store clean energy with our energy storage units! Product comes with a **24 month** warranty from the date of purchase.

TECHNICAL DATA

Producer	Qoltec
Cell type	LiFePO4
Voltage	25.6V
Capacity	5120Wh
Waveform	Pure sine wave
Charge voltage	28.8V
Built-in battery	Yes
Internal resistance	10m
Maximum battery charging current from PV	100A
Maximum discharge current	100A
Number of charging cycles	4000
Communication	RS485 - communication with inverter / RS232 - communication with PC
Additional information	Supports BMS
Attention	We require the device to be installed by a qualified installer with the appropriate authorization. In case of installation by unauthorized persons, the warranty will automatically expire. The included protocol is an integral part of the warranty and is necessary to file a claim for defective goods within 24 months from the date of purchase.
Housing color	White
Operating temperature range	Charge : 0°C ~ +45°C Discharge : -25°C ~ +55°C
Storage temperature range	Less than 8 months : -10°C ~ +35°C Less than 3 months : -10°C ~ +45°C Less than 7 days : -20°C ~ +65°C
Dimensions (D/L x W x H)	510 x 520 x 270 mm
Package contents	1 x LiFePO4 energy storage 1 x Mounting accessories 1 x Mounting protocol
Package depth / length [mm]	590
Package width [mm]	640
Package height [mm]	305
Net weight [kg]	50.61
Gross weight [kg]	54
Certificate	CE
Warranty	24 month
EAN code	5901878538778