



Qoltec Stable Energy storage LiFePO₄ for RACK | 5.12kWh | 51.2V | 100Ah | BMS | LCD

Product code: 53712

Qoltec brand energy storage can safely store and manage energy generated from renewable sources such as solar power. Using state-of-the-art LiFePO₄ technology, it can achieve several thousand charge and discharge cycles. Built-in BMS-type software guarantees safe use by controlling the battery's charge and discharge levels. It has RS485 and RS232 and RS485-CAN ports.

STORE UP ENERGY AND USE IT WHENEVER YOU WANT!



Stable, reliable and environmentally friendly power supply at any time of day

Qoltec energy storage will significantly **increase the functionality of your photovoltaic installation and provide a stable and environmentally friendly power supply**. It can **efficiently store surplus energy** acquired during the day that we are unable to consume at any given time, until it is fully charged for use at a later time when current production ceases or is below demand, e.g. during power cuts. **The stored energy is available at all times** when the storage is discharged, electricity is drawn from the grid. Surplus energy can also be sent to the grid.

SUSTAINABLE ENERGY IN ONE STORAGE



Precise power and voltage regulation, energy independence, real-time monitoring and a wide range of security features

Main functions of Qoltec energy storage :

- You can **make the most of the energy you produce and use it at a later time**, such as on cloudy days or at night,
- 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,
- You support the development of renewable energy sources,
- It has a built-in **LiFePO4 lithium-iron-phosphate battery**.

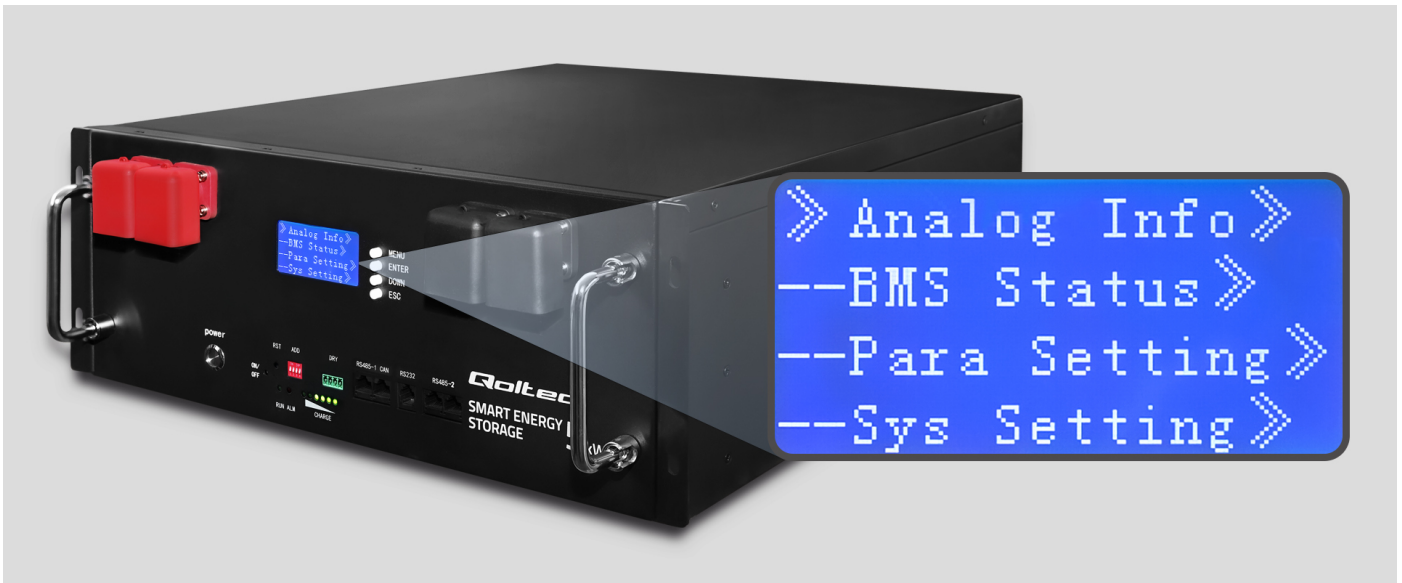
LIFEPO4 - TECHNOLOGY YOU CAN TRUST



Powerful and discharge-resistant LiFePO4 batteries

Qoltec's energy storages are equipped with extremely **powerful and deep discharge** resistant lithium-iron-phosphate batteries – **LiFePO4**. The advantage of this battery is undoubtedly its long service life of up to **several thousand charge and discharge cycles**, as well as its **lightness and the lack of memory effect** , which causes a loss of actual capacity. LiFePO4 batteries **do not pollute the environment**, are non-toxic and **non-flammable**, which increases the safety of their use in photovoltaics.

CHOOSE FULL CONTROL, CHOOSE OUR INNOVATIVE ENERGY!



Easy control of battery level and other parameters

The product features a multifunctional, easy-to-use LCD display with control panel. It allows control and monitoring of the battery status. In addition, the display informs you of failures, reacting accordingly if any parameter exceeds the norm. Combining efficiency with transparency, we provide you with full control of your energy, step by step, on screen, for your convenience.

RACK CABINET MOUNTING



Advantages of rack energy storage

Mount your energy storage in a rack, optimizing space and order in the room. You'll gain convenient access to your energy management system while creating a professional and aesthetically pleasing installation, ideal for use in offices, server rooms or other spaces where space efficiency and functionality are important.

BMS THAT IS INTELLIGENT BATTERY MANAGEMENT SYSTEM



Battery Management System

Cell protection against overheating, overcharging and deep discharge

Advanced BMS :

- Constantly monitors and controls the battery's operating parameters, ensuring optimum performance, even charging and discharging.
- Protects cells from overheating, overcharging and deep discharge, which can damage the battery.

FULL OPERATIONAL SAFETY - YOUR ENERGY STORAGE WORKS IN COMPLETE SAFETY



Equipped with a comprehensive security kit to protect your system **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

Product covered by a 24-month warranty

Our company is committed to providing technical support and customer service, making our guarantee a comprehensive commitment to customer satisfaction for two years from the date of purchase. The included protocol is an integral part of the warranty and is necessary to file a claim for faulty goods within **24 months of purchase**.

Harvest clean energy with our energy storages!

TECHNICAL DATA

Producer	Qoltec
Cell type	LiFePO4
Nominal voltage	51.2V
Capacity	100Ah
Charge voltage	max. 58.4V
Cut off voltage	44.80V (0.01C)
Variable charging voltage	55.20V 0.1V
Standard charging current	50A
Standard discharging current	50A
Maximum charging current	50A
Maximum discharge current	100A
Maximum battery charging current from PV	50A
Number of charging cycles	3000 (100% DOD)
Number of batteries	16
Internal resistance	40m
Communication	RS485-1 CAN, RS485-2 , RS232
Usage	Storage of excess energy generated by the photovoltaic installation Emergency power systems
Protection	UVP - protects against under-voltage at the output, SCP - is short-circuit protection, OVP - is protection against too high output voltage, OCP - is protection against too high line current, OTP - is protection against overheating.
Additional information	Supports BMS
Notices	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.
IP Rating	IP55
Operating temperature range	Charge : 0°C ~ +50°C Discharge : -20°C ~ +60°C
Relative humidity	95%
Housing color	Black
Dimensions (D/L x W x H)	507 x 442 x 177 mm
Package contents	1 x LiFePO4 energy storage 1 x Mounting accessories 1 x Mounting protocol 1 x User Manual
Package depth / length [mm]	490
Package width [mm]	600
Package height [mm]	240
Net weight [kg]	51.500
Gross weight [kg]	53.000
Certificate	CE
Warranty	24 month
EAN code	5901878537122