



FENECON Commercial 50-series The modular business-grade storage system.

Image similar

The FENECON Commercial 50-series is a modular system for storage of electrical energy in lithium-iron-phosphate (LiFePO₄) batteries.

The modular concept of performance, capacity and application apps make it the optimal system for commercial, industrial, agricultural, supplying tenants or network services applications.

- ✓ 50 kW - 1.000 kW power
- ✓ 60 kWh - 1.200 kWh usable battery capacity
- ✓ fully modular system concept
- ✓ subsequently expandable
- ✓ LiFePO₄ battery technology

Thanks to the modular energy management system FEMS - based on the OpenEMS - the FENECON Commercial is always prepared for new applications:

- ✓ **Self-consumption optimization**
Achieve maximum self-efficiency.
- ✓ **Peak Shaving**
Reduce peak load demands and grid connection costs.
- ✓ **Charging station-management**
Charge your EV from own -produced solar energy or in times of low energy costs.
- ✓ **Primary control and grid services**
Ready for participation in the balancing power market. Furthermore voltage stability, power factor correction, balancing group management and other applications are possible



Battery inverter from the leading supplier KACO



Lithium-iron-phosphate-battery technology (LiFePO₄)



intelligent energy management system



Scalable power in 50 kW units



Flexible battery configuration from 60 to 1.200 kWh



easily functional enhancement

Technical data battery inverter

Dimensions inverter (W/D/H)	500 / 452 / 760 mm
Weight inverter	75 kg
Mounting	Wall mounting
IP protection class	IP 65
Operation temperature	-20 °C to +60 °C
Max. own consumption	3 W (Standby)
Max. sound level	< 61 dB
Max. efficiency	98,5 %
Communication interface	Ethernet

AC-part	
Nominal power	50 kW
Nominal voltage	400V/ 230 (3/N/PE oder 3/PEN)
Nominal current	3 x 72,4 A @ 230 V
Frequency	50 / 60 Hz
THD	<= 1 %



Technical data battery cabinet

Nominal capacity	60 kWh
Technology	Lithium-iron-phosphate (LiFePO ₄)
Capacity warranty	70 % after 12 years
Nominal voltage	768 V _{DC}
Battery voltage	696 - 854 V _{DC}
Nominal current	80 A
Max. charge/discharge current	90 Av
Operation temperature	-20 °C to +55 °C
Humidity	0 % to 90 % (not condensing)
IP protection class	IP 20
Weight per battery cabinet	400 kg
Dimensions per battery cabinet (W/D/H)	620 / 350 / 1.900 mm
Communication interface	CAN / RS 485



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The FENECON Commercial 50-series is available in different battery configurations which are individually due to the clients project.

Warranty

- 5 years product warranty – extendable to 10 years
- 10 years time value replacement warranty accord. to KfW-terms
- 12 years or 6.000 cycles capacity warranty till 70 % residual capacity

Certifications

- CE; low voltage directive VDE-AR-N 4105; EMV; UN 38.3
- IEC 62477, IEC 62109, EN61000-6-2, EN61000-6-3, EN61000-6-4, EN61000-3-11/-12

Technical structure

