



# FENECON Commercial 40-40

## The business-grade storage system.

The FENECON Commercial 40-40 is a fully integrated, modular system for storage of electrical energy in lithium-iron-phosphate (LiFePO<sub>4</sub>) batteries.

The typical application area ranges from larger residential units over farms to commercial and industrial enterprises.

- ✓ 40 kW charge and discharge power
- ✓ 40 kWh usable battery capacity
- ✓ from 30,000 kWh annual electricity demand
- ✓ cluster mode possible
- ✓ LiFePO<sub>4</sub> battery technology

Thanks to the modular energy management system FEMS, the FENECON Commercial is always prepared for new „Apps“ in order to realize different usage scenarios:

- ✓ **Self-consumption optimization**  
Achieve maximum self-efficiency.
- ✓ **Peak shaving**  
Reduce peak load demands and grid connection costs.
- ✓ **Emergency power/off grid**  
Reliable power supply at grid failures and in off-grid applications.
- ✓ **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



local and remote monitoring



emergency power function



reduce your energy costs



smart energy management



grid services



quality of the worlds largest producer of batteries, ev cars & ev buses

## General data



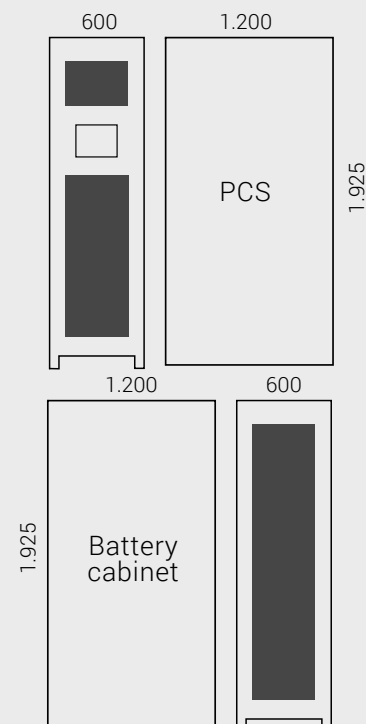
Build Your Dreams

System Type (manufacturer)	CESS P40B40-I-E-R1 CESS P40B40C60-I-E-R1
Dimensions PCS (W/D/H)	600 / 1,200 / 1,925 mm
Dimensions battery cabinet (W/D/H)	600 / 1,200 / 1,925 mm
Weight PCS	550 kg
Weight battery cabinet	713 kg
Mounting	floor-standing
IP protection class	IP 20
Operation temperature	0 - 40 °C
Operating mode	3-phase
Max. sound level	< 78 dB
Communication interface	Ethernet

## Technical parameters according to manufacturer

Nominal capacity	DC 40 kWh
Technology	Lithium iron phosphate (LiFePO <sub>4</sub> )
Rest capacity after warranty	70 %
Nominal voltage	716.8 V <sub>DC</sub>
<b>Inverter</b>	
Nominal output	40 kVA
Nominal voltage	230 V <sub>AC</sub> / 400 V <sub>AC</sub>
Frequency	50 Hz
Nominal voltage	97 %
<b>PV-charger (only CESS P40B40C60-I-E-R1)</b>	
Nominal output	2 x 30 kW
Open-circuit voltage	max. 650 V <sub>DC</sub>
MPP voltage	300 - 500 V <sub>DC</sub>
MPP tracker	2
Max. output current	100 A
Efficiency	97 %

## FENECON Commercial 40-40



## Warranty

5 years product warranty – extendable to 10 years

10 years 80 % 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

EN 62109-1:2010, EN 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-4:2007

## Technical structure

