



FENECON Pro Hybrid 10-series The best of three worlds.

FENECON Pro Hybrid 10-series connects the modular high-voltage Battery-Box from BYD with the emergency-power capable hybrid inverter of the EES Award winner Energy Depot.

FEMS (FENECON Energy Management System) is based on OpenEMS and is the central control unit of the FENECON energy storage systems.

- ✓ 10 kW charge and discharge power
- ✓ from 6,40 to 10,24 kWh usable battery capacity
- ✓ from 5.000 kWh annual electricity demand for new and existing PV installations
- ✓ emergency power and off-grid function (optional)
- ✓ LiFePO₄ battery technology

Thanks to the modular energy management system FEMS the FENECON Pro Hybrid 10-series is ready for new „Apps“ in order to realize different usage scenarios:

- ✓ **Charging station app**
intelligent charging of an electric car from renewable energy.
- ✓ **„SG-ready“ app**
control of a „Smart-Grid-Ready“ heat pump.
- ✓ **Heating element app**
„power-to-heat“ application for excess energy.
- ✓ **Peak-shaving**
management algorithm for peak-shaving.



modular battery



efficient inverter



extendable with apps

EMS

smart energy management system



smart-grid-ready



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

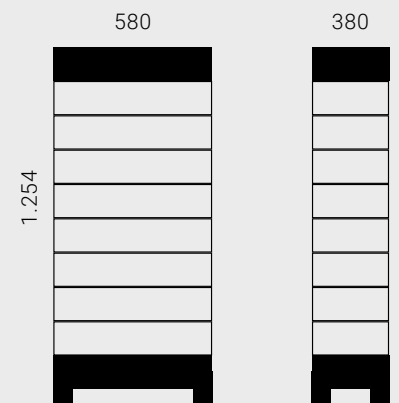
General data

System Type (manufacturer)	Battery-Box HV FENECON Edition	Centurio 10	FEMS Box
Dimensions (W/D/H)	580 / 380 / 894 up to 1,254 mm	610 / 200 / 552 mm	300 / 95 / 370 mm
Weight	148 kg up to 226 kg	33 kg	5 kg
Mounting	Floor mounting	Wall mounting	Wall mounting
IP protection class	IP 55	IP 20	IP 20
Operation temperature	-10 °C up to +40 °C	+5 °C up to +40 °C	-
Operating mode	-	3-phase	-
Max. sound level	-	< 35 dB (A)	-
Max. sound level	CAN / RS485	RS485, Ethernet	Ethernet

Technical data

Nominal capacity	DC 6.40 up to 10.24 kWh
Technology	Lithium iron phosphate (LiFePO4)
Rest capacity after warranty	80 %
Nominal power inverter	10 kVA
Maximal power AC	11 kVA
Frequency	50 Hz
Efficiency inverter	> 97 %
Emergency power	optional
Nominal output emergency power	10 kVA
Max. PV-DC-power	2 x 6,000 W

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Warranty

5 years product warranty – extendable to 10 years

10 years 80 % time value replacement warranty according to KfW-terms

Capacity warranty 10 years or minimum through output energy till 80 % residual capacity

Certifications

CE; low voltage directive VDE-AR-N 4105; VDE0126

CE / UL 1642 / RCM / Sicherheitsleitfaden Li-Ionen-Haus-speicher

Technical structure

