



FENECON Industrial solutions Grid utility and industrial storage system.

The challenges of a renewable energy supply and the transformation of the power grid to integrate decentralized generators are various. In cooperation with BYD, one of the worlds largest battery manufacturers, FENECON develops and designs battery storage systems for stationary energy and power applications.

The product portfolio ranges from small systems for private households to battery storage in commercial and industrial applications to solutions in the megawatt scale for grid operation.

FENECON GmbH offers expertise over the entire life of your storage projects – from the initial idea to finalization.

FENECON has already been working with stationary storage technology since 2011 and has long-standing, extensive know-how in the design, commissioning, energy management and operation of complex and intelligent battery storage systems.

Load levelling

Directed and active control of own consumption for network stabilization and utilization of electricity price fluctuations.

Peak shaving

Cut the load peaks in your commercial/industrial company and reduce grid connection costs.

OpenEMS

Management, monitoring, integration of electrical energy storage devices, -loads / -generators together with complementary interfaces and services.

Microgrid

Stable power supply in off-grid areas coupled with photovoltaics and/or diesel generators.

Frequency control

The energy storage system is charged or discharged depending on the increase or decrease of grid frequency and stabilizes the grid.

Grid quality

Increase the grid quality in the low-voltage and middle-voltage system by using intelligent storage technology.

Battery		
Technical name (Manufacturer)	0,56 MWh	1,5 MWh
Systemcapacity (useable at AC-side)	716 V _{DC}	
Nominal voltage	627 V - 806,4 V _{DC}	
Voltage range	3	8
No. of battery strings	C15H-8S	
Module typ	25,6 V _{DC}	
Module voltage	LiFePO ₄ (C15)	
Power conversion system		
Type	BEM480KTL-E-R1	BEM630KTL-E-R1
Nominal power	1 x 480 kVA	2 x 630 kVA
Nominal voltage AC	400 V	
Voltage range AC	360 - 440 V	
Nominal frequency	50 Hz	
Frequency range	47 - 52 Hz	
Power factor	1 (leading) - 1 (lagging)	
THD	< 3 %	
Accuracy active power output	+/- 3 kW	
Accuracy reactive power output	+/- 3 kVar	
Reaction time	200 ms	
Max. efficiency	98,7 %	
System level		
Communication	Modbus TCP	
Operational height	< 2.000 m	
Optimal temperature range	-20 °C bis +50 °C	
Mounting	container design	
Emergency power function	no	
Air conditioning	integrated	
Fire detection and extinguishing system	integrated	
Power consumption auxiliary systems	ca. 15 kVA	ca. 35 kVA
Weight	ca. 15 t	ca. 30 t
Dimensions in mm (W/D/H)	6.058 x 2.438 x 2.591	12.192 x 2.438 x 2.591

Warranty

2 Jahre Produktgarantie - verlängerbar auf 5 oder 10 Jahre

Certifications

CE, UN38.3, G 59, EN62477 – 1, EN61000-6-2, EN61000-6-4