

# Flexible Battery Storage System

---

Plug and Play  
Storage  
for  
On-grid &  
Off-grid  
applications



## Features

- ✓ AC output
- ✓ DC output
- ✓ Lithium LFP batteries
- ✓ PV array ready – MPPT
- ✓ Air conditioned enclosure
- ✓ SCADA

## Applications

- Net-metering
- Micro-grids
- Telecom BTS
- Smart grids
- EV charging

## Benefits

- ✓ Low cost
- ✓ Plug and Play
- ✓ High efficiency
- ✓ Long lifetime
- ✓ Small footprint
- ✓ Remotely controlled

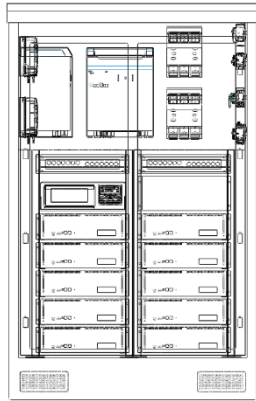
## The Heart of a Smart Energy System

Our Flexible Battery Storage (FBS) system is versatile, easy to install and has a broad scope of applications, ranging from grid connected net-metering systems to off-grid telecom stations. FBS contains high efficiency lithium batteries, inverters/chargers for AC output/grid connection and MPPT chargers, being ready for connection to a PV array or a Genset. FBS can form the core of a reliable, standardized micro-grid and can easily be transported and installed in less than a day. Its small footprint allows for

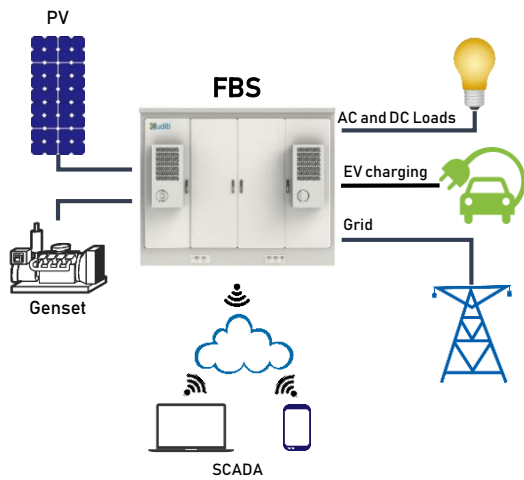
installation in tight places, suiting it for Telecom companies to integrate in BTS sites and benefit from solar energy. FBS is ideal for profit maximization via load shifting in net-metering systems due to its high efficiency. EV charging stations can also benefit from FBS as it can be connected to a simple electricity outlet and use its storage capacity for faster vehicle charging. Its programmable and remotely controlled system (SCADA) can easily be integrated to any Internet of Things (IoT) platform.



FBS40



FBS25



	FBS25	FBS40
<b>Power</b>		
AC Output	8 kW / 10 kVA	8 kW / 10 kVA
Peak AC Output	20 kW	20 kW
AC Voltage / Frequency	230 V <sub>AC</sub> / 50 Hz <sup>(1)</sup>	230 V <sub>AC</sub> / 50 Hz <sup>(1)</sup>
DC Output	20 kW	40 kW
DC Voltage (nominal)	48 V <sub>DC</sub> <sup>(2)</sup>	48 V <sub>DC</sub> <sup>(2)</sup>
AC Inputs	2	2
Max Feed Through Current	2 × 200 A	2 × 200 A
Battery Charging Current	140 A	140 A
Photovoltaic Power	11,6 kW <sub>p</sub>	11,6 kW <sub>p</sub>
Max PV Voltage	250 V	250 V
MPPT Trackers	2	2
<b>Storage</b>		
Battery Type	LiFePO <sub>4</sub>	
Battery Nominal Voltage	51,2 V (16 cells × 3.2 V)	
Battery Module Capacity	50 Ah	
No. of Battery Modules	10	18
Energy Capacity	24 kWh <sup>(3)</sup>	43.2 kWh <sup>(3)</sup>
Max Charge Rate	0.2C (C5)	
Max Discharge Rate	1C	
<b>Enclosure</b>		
Construction	1,5 mm double layer galvanized steel - PEF thermal insulation	
Dimensions (H × W × D)	2050 × 1200 × 1100 mm	2050 × 2500 × 1100 mm
A/C Cooling Capacity	2000 W	4000 W
Enclosure IP	IP65	IP65
Fire Suppression	Category A,B,F	
Enclosure Weight	< 500 kg	< 900 kg
Total Weight	< 810 kg	< 1470 kg
<b>Monitoring and Control</b>		
PCS	SCADA + on site display	
Battery	SCADA + on site intelligent display <sup>(4)</sup>	
Battery Interface	RS485	
Remote Monitoring	TCP/IP - 3G/4G GSM router	
Alarms	on site Alarm Board - TCP/IP communication	
<b>Inverter Standards</b>		
Safety	EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1	
Emission, Immunity	EN 55014-1, 2, EN-IEC 61000-3-2, 3, IEC 61000-6-1, , 2, 3	
Anti-islanding	IEC 62116:2014 (VDE 0126-2)	
<b>Solar Charge Controller Standards</b>		
Safety	EN-IEC 62109	
<b>Performance Testing</b>		



<sup>(1)</sup> 120 V<sub>AC</sub> / 60 Hz and three phase options available upon request  
<sup>(2)</sup> Actual DC voltage varies according to the battery SOC (48 V<sub>DC</sub> is the minimum)  
<sup>(3)</sup> Corresponds to the maximum number of battery units installed in the racks  
<sup>(4)</sup> SCADA can be switched temporarily to on site touch screen display - on battery display optional



Contact

Euditi Ltd.  
 Athens, Greece  
 T +30 2106446330  
 E [info@euditi.gr](mailto:info@euditi.gr)



[www.euditi.com](http://www.euditi.com)

