





Store your energy. Access anytime.

We created libbi to store your self-generated energy, to use when you need it most. It allows you to capture as much surplus solar electricity as possible, whilst integrating with all other myenergi devices.

libbi is modular by design. Each module can store up to 5kWh of electricity so, combining 4 of them together would provide up to 20kWh of storage.

Option of a 3.68kW or 5kW Hybrid Inverter

Up to 20kWh Storage Capacity

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Features

- myenergl Ecosystem Integrate with your myenergl devices, prioritising stored electricity to power your home, eddl or zappl.
- Sultimate Control Choose whether you want to charge your libbi from solar, grid or a mixture of both. When charging from grid libbi optimises around your time of use or dynamic tariff.
- Remote Access myenergi app allows you to access and control your libbi from anywhere in the world. Live displays allow you to monitor your imported and exported electricity, all in one place.
- Modular Storage By Design Each battery module stores 5kWh of electricity. Combining four together provides up to 20kWh of storage.
- Flexible Install libbi works as both an AC and DC coupled battery system with solar PV. Connect PV without the need for a separate inverter or retrofit to any existing PV system.
- Optional Blackout Back Up Instant energy availability to a dedicated socket or lighting circuit in the event of a power cut*

*Additional Installation costs will apply

An energy storage system to suit your needs

Use Case	I haven't got solar but I'd like it, with storage	I haven't got solar and I can't have it/don't want it but I'd like storage	I have solar and want to add storage	I have solar already and want to add more, with storage
Install Type	New Install	New Install	Retrofit	Retrofit
Set-up	PV (Solar) supplied by others and libbi	libbi only	libbi + solar	Install alongside your existing system
Solar Charging	\checkmark		\checkmark	\checkmark
Charging from Grid	\checkmark	\checkmark	\checkmark	\checkmark
Key Benefits	Connect your new solar array directly to your battery with no additional inverter needed!	Optimise your time of use tariffs, to store energy for use in more expensive periods.	Add a battery to your existing solar array; your existing inverter can be replaced.	Expansion of a solar without the need for an additional PV.

Model Variations

Model No.	Inverter Size	Battery Capacity		Ayeng	Apreny III	- April
LIBBI-305Sh	3.68 kW	5 kWh	* 5005 * 8			+ 2
LIBBI-310Sh	3.68 kW	10 kWh				
LIBBI-315Sh	3.68 kW	15 kWh	nyeregi			<u> </u>
LIBBI-320Sh	3.68 kW	20 kWh				
LIBBI-505Sh	5.00 kW	5 kWh				
LIBBI-510Sh	5.00 kW	10 kWh	₩ 50			
LIBBI-515Sh	5.00 kW	15 kWh				
LIBBI-520Sh	5.00 kW	20 kWh				
			5kWh	10kWh	15kWh	20kWh

IP65

IP Protection:



Battery Specification (based on one 5kWh Battery)

-10°C to +50°C

Electrical **BMS Energy Capacity:** 5.12kWh Max. Short Circuit Current: 125A 100 - 400Ah Capacity: Power Consumption: <2W Useable Capacity: 4 6kWh Operating Voltage Range: 44.8 - 56.5V **Modules Connection:** Max. 4 batteries in parallel Nominal Voltage: 51.2V Internal Resistance: <20mΩ Monitoring System voltage, current, cell voltage, cell temperature, PCBA Parameters: temperature measurement Depth of Discharge: 90% Cvcle Life: 10000 Cycles Operation Physical Max. 50A/80A Storage Temperature -20°C to +50°C **Battery Type:** LFP (LiFeP04) Dimension (WxHxD): 540 x 490 x 240mm Charge/Discharge Range:

Weight:

54kg

Temperature Range:

Current:

Operating

Compliance IEC 62040-1, IEC 62619, IEC 63056 & UN38.3. IEC/EN61000-6-1, IEC/EN61000-6-2, EN61000-6-3 & IEC/EN61000-6-4.

Humidity:

0 - 95%

Inverter Specification

Inverter General	3.68kW Inverter	5kW Inverter	AC Output	3.68kW Inverter	5kW Inverter
Max. Recommended PV	4800W	6500W	Nominal AC Output Power:	3680W	5000W
Power:					
Max. DC Voltage:	580V		Max. AC Output Power:	3680W	5000W
Nominal Voltage:	400V		Max. Output Current:	16A	22A
MPPT Voltage Range:	80V - 560V		Max. AC Apparent Power:	7360VA (from grid)	
Start Voltage:	130V		Nominal AC Voltage:	230Vac	
Number of MPP Tracker:	2		AC Grid Frequency Range:	50 / 60Hz +/-5Hz	
Strings Per MPP Tracker:	1		Max. Input Current:	32A	
Max. Input Current MPPT:	15A/15A		Power Factor (cosΦ):	0.8 leading – 0.8 lagging	
Max. Short-Circuit MPPT:	18A/18A		THDi:	<3%	
Battery Input	3.68kW Inverter	5kW Inverter	AC Output (Backup)	3.68kW Inverter	5kW Inverter
Max. Charging Current:	50A	100A	Max. Output Apparent Power:	4000VA	5000VA
Max. Discharging Current:	80A	100A	Max. Output Current:	16A	20A
Max. Charge/Discharge Power:	3000/4000W	4600/5000W	Peak Output Apparent Power:	6900VA 10sec	
Battery Type:	LFP (LiFeP04)		Nominal Output Voltage:	230V	
Nominal Battery Voltage:	48V		Nominal Output Frequency:	50 / 60Hz	
Charging Voltage Range:	40-60V		Output THDv (@Linear Load):	<3% (Linear Load)	
Battery Capacity:	100 – 400Ah				
Charging Strategy For Li-lon Battery:	Depends o	on the BMS			

Efficiency	3.68kW Inverter	5kW Inverter	Protection	3.68kW Inverter	5kW Inverter
Max. PV Efficiency:	97.6%		DC Switch:	Bipolar DC Switch (125A/Pole)	
Euro PV Efficiency:	97.0	0%	AC/DC Surge Protection:	C Surge Protection: DC Type II, AC Type III	
			DC Reverse Polarity	Ye	es
			Protection:		
			Output Over Current:	Ye	28
General Specification	3.68kW Inverter	5kW Inverter	Anti-islanding Protection:	Ye	es
Dimensions W x H x D:	540 x 590 x 240mm		String Fault Detection:	Ye	es
Weight:	32	kg	Insulation Detection:	Ye	es
Operating Temperature :	-25 to -	+60°C*	AC Short Circuit Protection:	Ye	es
Maine .	-25	AD.			

<25dB Cooling Type: Natural Convection Max. Operation Altitude: 2000m Max. Operation Humidity:

0-95% (No Condensation) IP Class: IP65

Topology: Battery Isolation Compliance

IEC/EN62109-1/2; IEC/EN61000-6-1; IEC/EN61000-6-2; EN61000-6-3; IEC/EN61000-6-4.

Grid Compliance

Mounting Location:

Supply Cable Entry:

Display:

DIN VDE 0126-1-1; VDE-AR-N-4105; AS 4777.2; G98/G99;

* Derating above 45°C

Controller Specification

Enclosure Material: Painted Zintec Steel

Dimensions: 146 x 165 x 51mm or 146 x 217.5 x 51mm including antenna

Supply Frequency: 50Hz Max. Current:

Rated Supply Voltage: 230V AC Single Phase (+/- 10%) Ethernet: 1 x LAN port, RJ45 connector

Grid Current Sensor: 100A max. Primary Current, 16mm max, Cable Diameter

Optional Setting to Limit Current Drawn from the Unit Supply or Dynamic Load Balancing: the Grid

Nominal Current: 25mA WiFi: 802.11b/g/n 2.4GHz

Serial: 1x RS485 port 868/915 MHz (Proprietary Protocol) for Wireless Sensor and Wireless Interface:

Remote Monitoring Options Metering Accuracy:

CTs Designed to Meet Class B (1%) of EN 50470 External CTs:

0.25-100A

Indoor

Rear or Bottom

Graphical Backlit LCD

IEC62368-1, EN 55014-1&2, EN 301489-1/3/17, EN 300 220-2, EN 300 328