





Features

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

Modular Storage By Design - Each battery module stores 5kWh of

- myenergi Ecosystem Integrate with your myenergi devices, prioritising stored electricity to power your home, eddi or zappi.
- 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
Charging from Grid	✓	\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		1		Aprelly
LIBBI-305Sh	3.68 kW	5 kWh	+ 3		+ 2	+ 3
LIBBI-310Sh	3.68 kW	10 kWh				
LIBBI-315Sh	3.68 kW	15 kWh	nymmy	<u></u>	<u>₩</u> <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	<u> </u>
LIBBI-320Sh	3.68 kW	20 kWh		1	1	1 1
LIBBI-505Sh	5.00 kW	5 kWh	-			
LIBBI-510Sh	5.00 kW	10 kWh	# ₫			
LIBBI-515Sh	5.00 kW	15 kWh				
LIBBI-520Sh	5.00 kW	20 kWh				
			5kWh	10kWh	15kWh	20kWh

<2% (Linear Load)



Ratton	v Specification (base	d on one EkWh Battony)

Electrical				BMS			
Energy Capacity:	5.12kWh	Max. Short Circuit Current:	125A	Capacity:	100 - 400Ah	Power Consumption:	<2W
Useable Capacity:	4.6kWh	Operating Voltage Range:	44.8 - 56.5V	Modules Connection:	Max. 4 batteries in para	allel	
Nominal Voltage:	51.2V	Internal Resistance:	<20mΩ	Monitoring Parameters:	System voltage, currer temperature measurer	nt, cell voltage, cell tempe ment	erature, PCBA
Depth of Discharge:	90%	Cycle Life:	10000 Cycles				
Operation				Physical			
Max. Charge/Discharge Current :	Depends on Inverter	Storage Temperature Range:	-20°C to +50°C	Battery Type:	LFP (LiFeP04)	Dimension (WxHxD):	540 x 500 x 240mm
Operating	-10°C to +50°C	Humidity:	0 - 90%	Weight:	58kg	IP Protection:	IP65

Temperature Range: 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.

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Inve	rter	Sne	CITIO	cation

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:	40	00V	Max. Output Current:	16A	22A
MPPT Voltage Range:	120V - 550V		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 ($cos\Phi$):	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 +/-0.2%	

Nominal Output Voltage: **Battery Type:** LFP (LiFeP04) Nominal Battery Voltage: 51.2V 50 / 60Hz +/-0.2% Nominal Output Frequency: Max. Charging Voltage: 57.6V Output THDv (@Linear Load): **Battery Capacity:** 100 - 400Ah Charging Strategy For Li-Ion Depends on the BMS

Battery:

Efficiencies	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%		AC/DC Surge Protection:	DC Type II, AC Type III	
Max. Battery To Load Efficiency:	94.0%		Anti-islanding Protection:	Yes	
Battery Charged by PV Max. Efficiency:	98.0%		Output Over Current:	Yes	
General Specification	3.68kW Inverter	5kW Inverter	DC Reverse Polarity Protection:	Ye	S
Dimensions W x H x D:	540 x 590 x 240mm		String Fault Detection:	Ye	S
Weight:	32kg		Insulation Detection:	Ye	S
Operating Temperature :	0 to +55°C (Charging), -20 to +55°C (Discharging)*		AC Short Circuit Protection:	Yes	s

Noise: <25dB Cooling Type: Natural Convection

Max. Operation Altitude: 2000m

IEC/EN62109-1/2; IEC/EN61000-6-1; IEC/EN61000-6-2; EN61000-6-3; IEC/EN61000-6-4. Max. Operation Humidity: 0-95% (No Condensation) IP Class: IP65 **Grid Compliance**

Compliance

DIN VDE 0126-1-1; VDE-AR-N-4105; AS 4777.2; G98/G99; Battery Isolation Topology:

* Derating above 45°C

Controller Specification

Dynamic Load Balancing:

Enclosure Material: Painted Zintec Steel Mounting Location: Indoor Dimensions: 146 x 165 x 51mm or 146 x 217.5 x 51mm including antenna Supply Cable Entry: Rear or Bottom 50Hz Supply Frequency: Display: Graphical Backlit LCD Max. Current: 0.1A **Nominal Current:**

Rated Supply Voltage: 230V AC Single Phase (+/- 10%) WiFi: 802.11b/g/n 2.4GHz Ethernet: 1 x LAN port, RJ45 connector Serial: 1x RS485 port

868/915 MHz (Proprietary Protocol) for Wireless Sensor and **Grid Current Sensor:** 100A max. Primary Current, 16mm max, Cable Diameter Wireless Interface: Remote Monitoring Options

CTs Designed to Meet Class B (1%) of EN 50470 External CTs: Optional Setting to Limit Current Drawn from the Unit Supply or Metering Accuracy:

0.25-100A

the Grid

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