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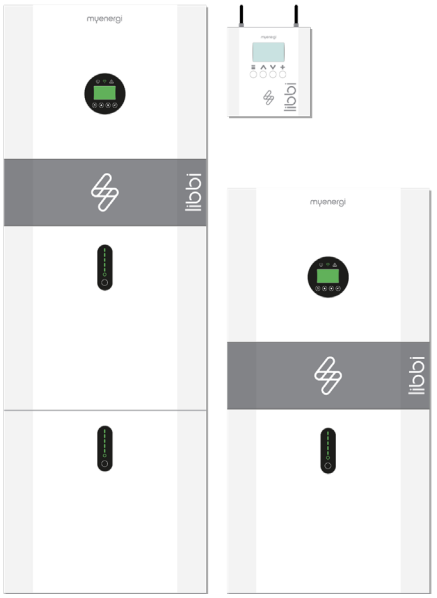
libbi HOME BATTERY



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

Features

- **myenergi Ecosystem** - Integrate with your myenergi devices, prioritising stored electricity to power your home, eddi or zappi.
- **Ultimate 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*

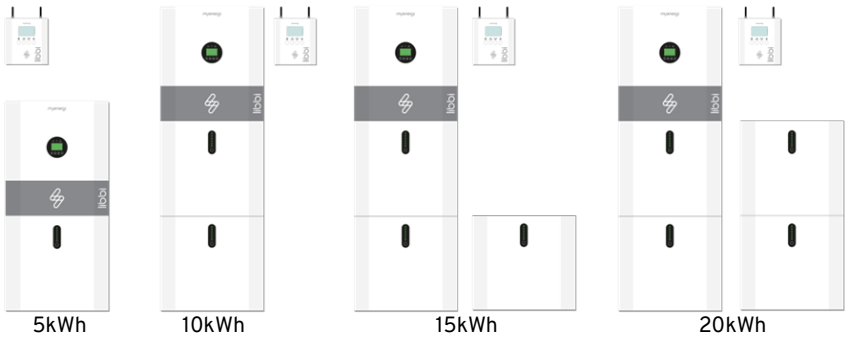
*Additional Installation costs will apply

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	✓		✓	✓
Charging from Grid	✓	✓	✓	✓
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 Inverter.

Model Variations

Model No.	Inverter Size	Battery Capacity
LIBBI-305Sh	3.68 kW	5 kWh
LIBBI-310Sh	3.68 kW	10 kWh
LIBBI-315Sh	3.68 kW	15 kWh
LIBBI-320Sh	3.68 kW	20 kWh
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



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Battery Specification (based on one 5kWh Battery)

Electrical			
Energy Capacity:	5.12kWh	**Max. Short Circuit Current:**	125A
Useable Capacity:	4.6kWh	**Operating Voltage Range:**	44.8 – 56.5V
Nominal Voltage:	51.2V	**Internal Resistance:**	<20mΩ
Depth of Discharge:	90%	**Cycle Life:**	10000 Cycles

Operation			
Max. Charge/Discharge Current :	50A/80A	**Storage Temperature Range:**	-20°C to +50°C
Operating Temperature Range:	-10°C to +50°C	**Humidity:**	0 – 95%

BMS			
Capacity:	100 – 400Ah	**Power Consumption:**	<2W
Modules Connection:	Max. 4 batteries in parallel		
Monitoring Parameters:	System voltage, current, cell voltage, cell temperature, PCBA temperature measurement		

Physical			
Battery Type:	LFP (LiFeP04)	**Dimension (WxHxD):**	540 x 490 x 240mm
Weight:	54kg	**IP Protection:**	IP65

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.

Inverter Specification

PV String Input	3.68kW Inverter	5kW Inverter
Max. Recommended PV Power (per MPPT string):	2400W	3250W
Max. DC Voltage:	580V	
Nominal Voltage:	400V	
MPPT Voltage Range:	80V – 560V	
Start Voltage:	150V	
Number of MPP Tracker:	2	
Strings Per MPP Tracker:	1	
Max. Input Current MPPT:	15A/15A	
Max. Short-Circuit MPPT:	18A/18A	

Battery Input	3.68kW Inverter	5kW Inverter
Max. Charging Current:	50A	100A
Max. Discharging Current:	80A	100A
Max. Charge/Discharge Power (1 battery module):	2825W/4000W	2825W/4096W
Max. Charge/Discharge Power (2-4 battery modules):	3000W/4000W	4600W/5000W
Battery Type:	LFP (LiFeP04)	
Nominal Battery Voltage:	48V	
Charging Voltage Range:	40-60V	
Battery Capacity:	100 – 400Ah	
Charging Strategy For Li-Ion Battery:	Depends on the BMS	

Efficiency	3.68kW Inverter	5kW Inverter
Max. PV Efficiency:	97.6%	
Euro PV Efficiency:	97.0%	

General Specification	3.68kW Inverter	5kW Inverter
Dimensions W x H x D:	540 x 590 x 240mm	
Weight:	32kg	
Operating Temperature :	-25 to +60°C*	
Noise :	<25dB	
Cooling Type :	Natural Convection	
Max. Operation Altitude :	2000m	
Max. Operation Humidity :	0-95% (No Condensation)	
IP Class :	IP65	
Topology :	Battery Isolation	

AC Output	3.68kW Inverter	5kW Inverter
Nominal AC Output Power:	3680W	5000W
Max. AC Output Power:	3680W	5000W
Max. Output Current:	16A	22A
Max. AC Apparent Power:	7360VA (from grid)	
Nominal AC Voltage:	230Vac	
AC Grid Frequency Range:	50 / 60Hz +/-5Hz	
Max. Input Current:	32A	
Power Factor (cosΦ):	0.8 leading – 0.8 lagging	
THDi:	<3%	

AC Output (Backup)	3.68kW Inverter	5kW Inverter
Max. Output Apparent Power:	4000VA	5000VA
Max. Output Current:	16A	20A
Peak Output Apparent Power:	6900VA 10sec	
Nominal Output Voltage:	230V	
Nominal Output Frequency:	50 / 60Hz	
Output THDv (@Linear Load):	<3% (Linear Load)	

Protection	3.68kW Inverter	5kW Inverter
DC Switch:	Bipolar DC Switch (125A/Pole)	
AC/DC Surge Protection:	DC Type II, AC Type III	
DC Reverse Polarity Protection:	Yes	
Output Over Current Protection:	Yes	
Anti-islanding Protection:	Yes	
String Fault Detection:	Yes	
Insulation Detection:	Yes	
AC Short Circuit Protection:	Yes	

Compliance

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

Grid Compliance

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	**Mounting Location:**	Indoor
Dimensions:	146 x 165 x 51mm or 146 x 217.5 x 51mm including antenna	**Supply Cable Entry:**	Rear or Bottom
Supply Frequency:	50Hz	**Display:**	Graphical Backlit LCD
Max. Current:	0.1A	**Nominal Current:**	25mA
Rated Supply Voltage:	230V AC Single Phase (+/- 10%)	**WiFi:**	802.11b/g/n 2.4GHz
Ethernet:	1 x LAN port, RJ45 connector	**Serial:**	1 x RS485 port
Grid Current Sensor:	100A max. Primary Current, 16mm max, Cable Diameter	**Wireless Interface:**	868/915 MHz (Proprietary Protocol) for Wireless Sensor and Remote Monitoring Options
Dynamic Load Balancing:	Optional Setting to Limit Current Drawn from the Unit Supply or the Grid	**Metering Accuracy:**	CTs Designed to Meet Class B (1%) of EN 50470 External CTs: 0.25-100A

Compliance

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

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