



LITHIUM IRON PHOSPHATE

BATTERY INSTALLATION MANUAL

GENERATION 1 | Giv-Bat 2.6, Giv-Bat 5.2, Giv-Bat 8.2

GIV-BAT 2.6

SPECIFICATIONS



SMALL AND COMPACT

The perfect starter battery

The 2.6kWh battery pack is ideal for New Build and Social Housing Projects where smaller storage capacity is required to start that can then be increased over time. Due to its small and compact design, it is suitable for installation in loft spaces or hard to access areas. Can be banked together to reach the desired capacity for the household.

Utilising lithium iron phosphate technology, our batteries are extremely safe and can be installed in a wide range of locations. The battery chemistry does not contain any Cobalt, making it non-flammable and the battery pack is 99% recyclable.

Specifications

- Dimensions**
299H x 205D x 480W (mm)
- Weight**
35.5 Kg
- Usable capacity**
2.6 kWh / 51 Ah
- Voltage**
51.2V DC
- Current**
30A

- Warranty**
12 years
- Operating temperature**
-10°C to 55°C
- Operating voltage range**
45V - 58V
- Depth of Discharge**
80%

GIV-BAT 5.2

SPECIFICATIONS



AGILE AND VERSATILE

Championing Modular Design

The 5.2kWh battery pack is our most versatile battery and can be installed in a wider range of locations due to its compact design and can either be wall mounted or floor stood.

This battery is primarily used in a modular way ensuring the system can grow with the needs of the consumer. Utilising lithium iron phosphate technology, our batteries are extremely safe and can be installed in a wide range of locations. The battery chemistry does not contain any Cobalt, making it non-flammable and the battery pack is 99% recyclable.

Specifications

- Dimensions**
515H x 223D x 480W (mm)
- Weight**
63 Kg
- Usable capacity**
5.2 kWh / 102 Ah
- Voltage**
51.2V DC
- Current**
50A

- Warranty**
12 years
- Operating temperature**
-10°C to 55°C
- Operating voltage range**
45V - 58V DC
- Depth of Discharge**
80%



OUR BESTSELLER
An ideal middle ground

The 8.2kWh battery pack is the most popular Battery pack of its size for medium size properties. During the summer there is enough capacity to store up to 50% of your daily generated energy (based upon a 4kWp PV system) and in the winter the pack can deliver up to 80% of your daily household energy (based upon a household using 10kWh/Day).

Utilising lithium iron phosphate technology, our batteries are extremely safe and can be installed in a wide range of locations. The battery chemistry does not contain any Cobalt, making it non-flammable and the battery pack is 99% recyclable. Our market leading battery warranty means you can use your battery as often as you need for 12 years and still be covered.

Specifications

Dimensions
669H x 223D x 480W (mm)

Weight
94 Kg

Usable capacity
8.2 kWh / 160 Ah

Voltage
51.2V DC

Current
80A

Warranty
12 years

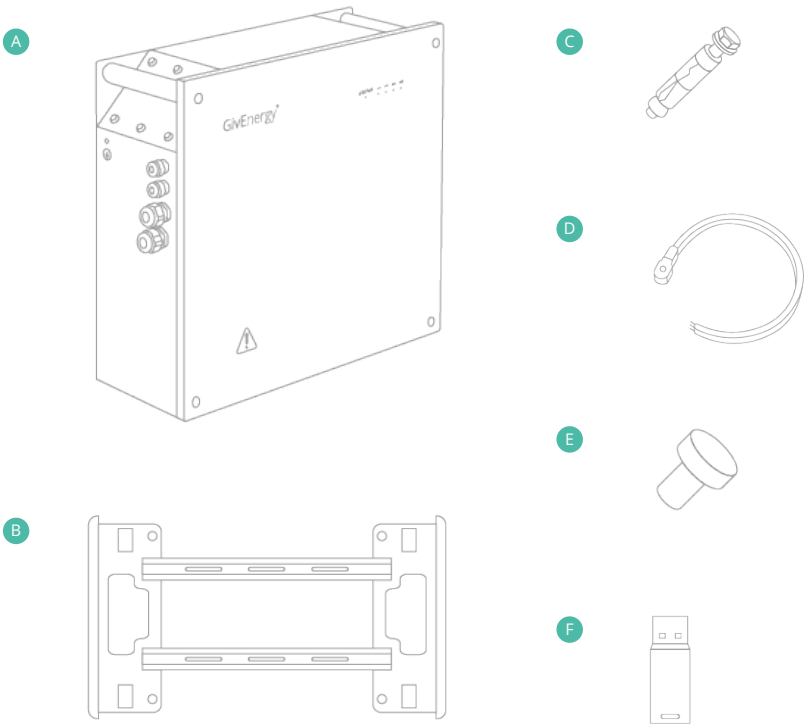
Operating temperature
-10°C to 55°C

Operating voltage range
45V - 58V DC

Depth of Discharge
100%

Item	Item Name	Qty
A	Battery Module	1
B	Wall Mounting Bracket	1
C	Fixing Kit	4 or 6*
D	Cable Pack (Power and Data 2m)	1
E	Waterproof Blanking Plug**	1
F	USB Stick**	1

* Expansion bolts quantity varies. 4 included with GIV-BAT 2.6, 6 included with GIV-BAT 5.2 and above.
** This may be pre-installed



Introduction

All information contained in this booklet refers to the assembly, installation, commissioning, and maintenance of Generation 1 batteries. Please retain this manual for future reference.

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Installation Requirements

Installation of all GivEnergy equipment must be carried out by a **GivEnergy Approved Installer**.

Unit Information

The Generation 1 batteries are designed to work with a GivEnergy AC Coupled or Hybrid Inverter. The batteries work with renewable generation or import from the grid at off-peak times when prices are lower, and discharge during busier periods when prices are more expensive.

Storing the Battery

The units must be stored in their original packaging at temperatures between -30°C - 60°C. Please note that between -10°C - 0°C there may be reduced performance in charging and discharging. Do not stack more than 4 units on top of each other.

Packaging Contents

When unpacking, please check the following:

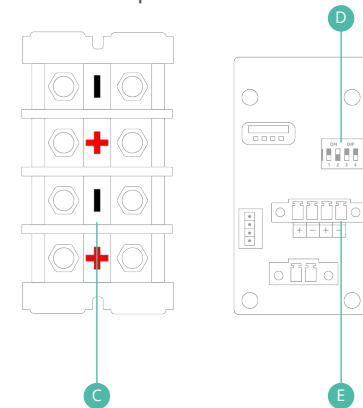
- There are no missing accessories from the packaging list
- The model and specification of the battery's nameplate match the order specifications

If any damaged or missing parts are found, please contact GivEnergy on **01377 252 874** or email **support@givenergy.co.uk** immediately. Returns must be provided in original or equivalent packaging. The cardboard packaging is recyclable.

Item	Item Name	Function
A	ON/OFF Switch	System Switch
B	STATUS	Status Indicators
C	Power Terminal	Power Connectors
D	Address Dip Switch	Battery ID Switch
E	Comms Sockets	Inverter/Battery Comms
F	Cable Entry Glands	Cable to Battery
G	Earthing Point	Earth Bonding



Internal Components



SAFETY AND INSTALLATION

Safety Instructions

Extra care and attention must be taken when installing and maintaining any GivEnergy equipment.

The system is capable of retaining voltage, even when disconnected

- If you suspect something is wrong with the battery, contact GivEnergy on **01377 252 874** or email **support@givenergy.co.uk**.
- If any damaged or missing parts are found, please contact GivEnergy on **01377 252 874** or email **support@givenergy.co.uk** immediately. Returns must be provided in original or equivalent packaging. The cardboard packaging is recyclable.

Installation Instructions

- All electrical installations must be carried out by a qualified and registered electrician and in accordance with the IEE Wiring Regulations
- Ensure batteries are always fixed to the wall using the mounting bracket, even when the weight of the product is on the floor
- All GivEnergy equipment must be installed by a **GivEnergy approved installer**
- Externally mounted batteries must always be wall mounted above the frost-line or a minimum of 50mm
- An earth bond must be installed between all batteries and inverters
- Do not remove the front cover unless instructed by the GivEnergy support team



Do not use the battery if there are any deformities, such as bulging or leakages



Do not puncture the battery



Do not throw the battery or use forceful impact



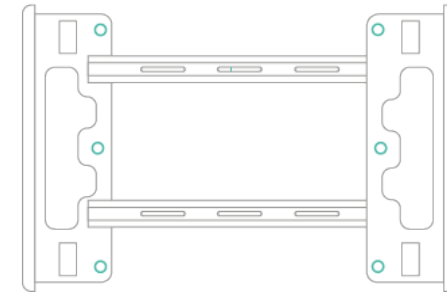
Do not attempt to repair the battery yourself (please call your approved installer)



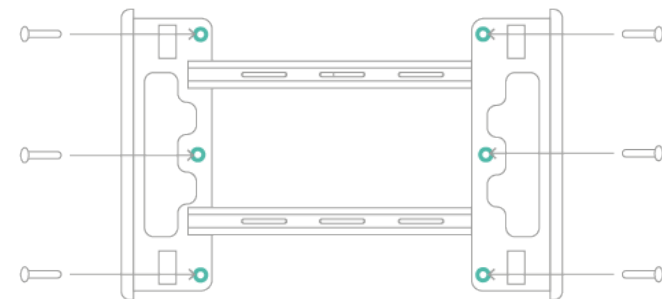
The battery must be installed vertically, never install horizontally, avoid tilting the unit

STEP-BY-STEP INSTALLATION

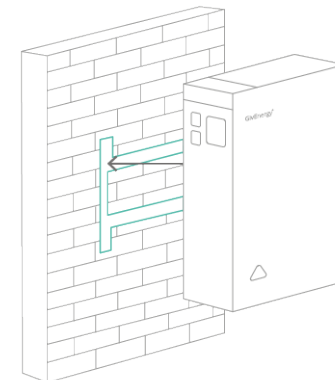
1. Place the wall mounting bracket horizontally onto the wall and mark the position of the bracket holes.



2. Drill 4 (Giv-Bat 2.6) or 6 (Giv-Bat 5.2 and above) holes at the marked positions, at least 75mm deep. Fix the mounting bracket to the wall using the expansion bolts.



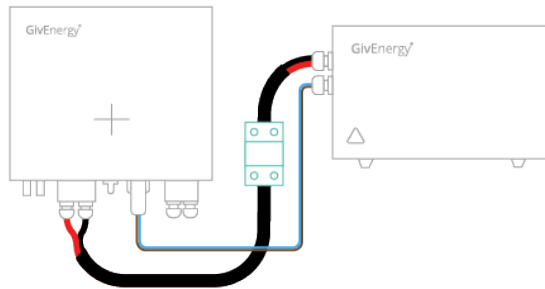
3. Mount the battery onto the mounting bracket.



STEP-BY-STEP INSTALLATION

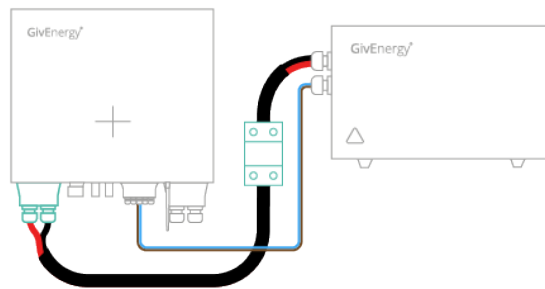
For Generation 1 Inverters only

- 4A.** A 100A DC circuit breaker must be installed inline between the inverter and battery pack. Only one circuit breaker is required, using the provided cable. The largest battery should always be installed between the inverter and any other batteries.



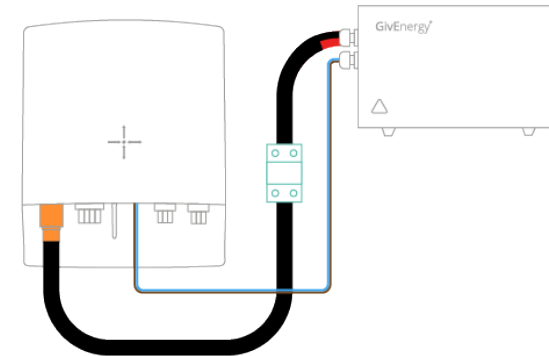
For Generation 2 Inverters only

- 4B.** A 100A DC circuit breaker must be installed inline between the inverter and battery pack. Only one circuit breaker is required, using the provided cable. The largest battery should always be installed between the inverter and any other batteries.



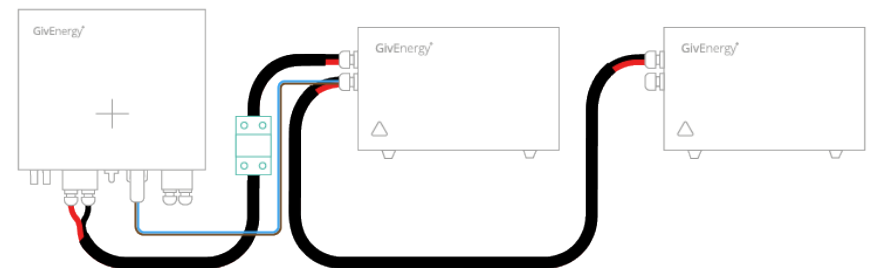
For Generation 3 Inverters only

- 4C.** If multiple Generation 1 batteries are installed, connect output B of the first battery to output A on the additional battery packs using a lug to plug cable.



For additional batteries






- 4D.** If multiple Generation 1 batteries are installed, connect output B of the first battery to output A on the additional battery packs using a ring terminal cable. There must be no more than 5 batteries installed. This is applicable regardless of the generation of the inverter.



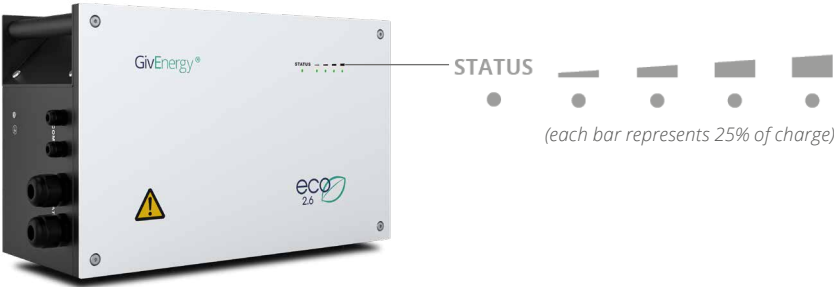
- 5.** Push the 'On/Off' button on the right hand side of the battery, the LEDs will light up.
- 6.** Commission the battery on the online portal and ensure the battery is operating normally.

DIP SWITCHES & STATUS INDICATORS

Switch 1

Battery	ID	Description
Master		0, 0, 0, 0
Slave 1		1, 0, 0, 0
Slave 2		0, 1, 0, 0
Slave 3		0, 0, 1, 0
Slave 4		0, 0, 0, 1

Status Indicators



What does the STATUS light mean?

Green	Healthy, good state of charge (SOC)
Amber/Green, flashing	Firmware update
Green, flashing	Lower state of charge, outside of normal operating voltage
Red, flashing	Very low state of charge
Red	Fault. Logged in system. If the light is red, call GivEnergy for remote diagnostics.

MANUFACTURER WARRANTIES

GivEnergy is the main supplier and manufacturer of the product. GivEnergy warrants that your product is (a) of acceptable quality and (b) does not have any latent defects.

- If you suspect something is wrong with the battery, contact GivEnergy on **01377 252 874** or email **support@givenergy.co.uk**.
- If any damaged or missing parts are found, please contact GivEnergy on **01377 252 874** or email **support@givenergy.co.uk** immediately. Returns must be provided in original or equivalent packaging. The cardboard packaging is recyclable.

Products Covered



Giv-Bat 2.6
12 years



Giv-Bat 5.2
12 years



Giv-Bat 8.2
12 years

