



LITHIUM IRON PHOSPHATE

BATTERY INSTALLATION MANUAL

GENERATION 2 | Giv-Bat 9.5

GIV-BAT 9.5 SPECIFICATIONS BOX CONTENTS



BIGGER AND BETTER

Increased storage and efficiency

The 9.5kWh battery pack sits alongside our AC Coupled or Hybrid Inverter so that you can store energy from the grid or excess generation.

Utilising lithium iron phosphate, our batteries are extremely safe and can be installed in a wide range of locations. Our battery warranty means you can use your battery as much as you need for 12 years and still be covered.

Specifications

Dimensions

800H x 242D x 480W (mm)

Weight

110 Kg

Usable capacity

9.5 kWh / 186 Ah

Voltage

51.2V DC

Current

80A

Warranty

12 years

Operating temperature

-10°C to 55°C

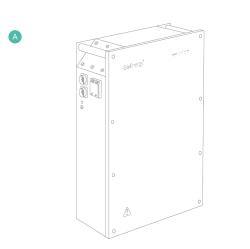
Operating voltage range

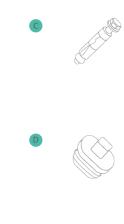
45V - 58V DC

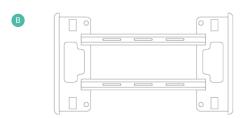
Depth of Discharge

100%

Item	Item Name		Qty
A	Battery Module	Battery Module	1
В	Wall Mounting Bracket	Wall Mounting Bracket	6
С	Fixing Kit	Fixing Kit	2
D	Waterproof Blanking Plug	Waterproof Blanking Plug	2









GENERAL INFORMATION

Introduction

All information contained in this booklet refers to the assembly, installation, commissioning, and maintenance of Generation 2 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 2 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:

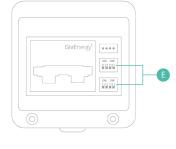
- There are no missing accessories from the packaging list
- The model and specification of the battery's nameplate match the order specifications

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
В	STATUS	Status Indicators
С	Power Terminal	Power Connectors
D	DC MCB Breaker	Battery Isolator
Е	Dip Switches	Dip Switch
F	Earthing Point	Earth Bonding



DC MCB / dip switches





Two types of cables exist for connection to Gen 2 batteries;

Lug to plug battery cable



Plug to plug battery cable



IMPORTANT

All Generation 2 battery cables need to be purchased seperately.

Safety Instructions

Extra care and attention must be taken when installing and maintaining any GivEnergy equipment. The system is capable of lethal voltages, 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
- **P** 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



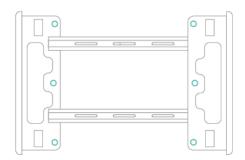
Do not attempt to repair the battery yourself (please call your Approved Installer)



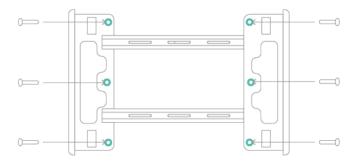
The battery must be installed vertically, never install horizontally, avoid tilting the unit

STEP-BY-STEP INSTALLATION

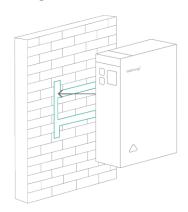
1. Place the wall mounting bracket horizontally onto the wall and mark the position of the bracket holes.



2. Drill 6 holes at the marked positions, at least 75mm deep. Fix the mounting bracket to the wall using 6 expansion bolts.

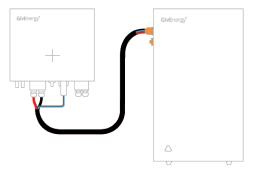


3. Mount the battery onto the mounting bracket.



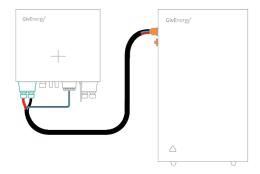
For Generation 1 Inverters only

4A. Connect output A to the inverter using a lug to plug cable. If not connecting to additional battery packs, apply the blanking plug to output B.



For Generation 2 Inverters only

4B. If multiple Generation 2 batteries are installed, connect output B of the first battery to output A on the additional battery packs using a plug to plug cable. There must be no more than 5 batteries installed.

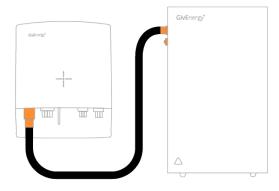




STEP-BY-STEP INSTALLATION

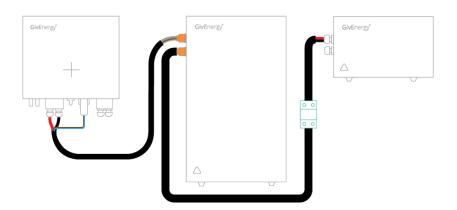
For Generation 3 Inverters only

4C. If connecting to Generation 3 inverter, use a plug to plug cable from output A of the Generation 2 battery to the connectors within the Generation 3 inverter.

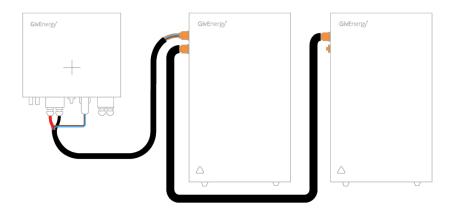


For installing additional batteries

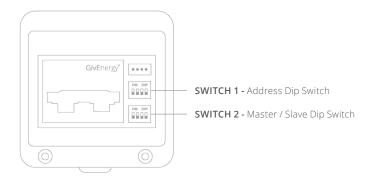
4D. If connecting a Generation 1 battery to a Generation 2 battery use a plug to lug cable and connect from output B in your Generation 2 battery into the comms connection within the Generation 1 battery, and set your dip switches as per instructed within the GivEnergy installation guide.



4E. If connecting a Generation 2 battery to a Generation 2 battery use a plug to plug cable and connect from output B in your master battery into output A of your slave Generation 2 battery, and set your dip switches as per step 5 (below).



5. Set up the dipswitches on the circuit breaker, as shown below.



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



MANUFACTURER WARRANTIES

Dip Switches

Switch 1

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

Switch 2

Battery	ID	Description
Master	ON DIP 1 2 3 4	1, 1, 0, 0
Slave 1	ON DIP	0, 0, 1, 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.	

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.

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Products Covered



Giv-Bat 9.5 12 years



