

# GivEnergy

## Installation Note

Note to ALL installers of GivEnergy Products.

1. All GivEnergy Batteries should have a minimum **DC Circuit protection of 63A** connected in line between the inverter and battery packs.
2. All GivEnergy battery packs should be earthed with a **minimum CPC 50%** size of the AC supply to the inverter.(minimum 2.5mm<sup>2</sup> CPC).
3. All GivEnergy Inverters should be earthed with a **minimum CPC 50%** size of the AC supply to the inverter.(minimum 2.5mm<sup>2</sup> CPC).
4. Local Isolation shall be installed AC/DC within proximity of the inverter to allow safe working under routine maintenance.
5. All Firmware revisions need to be issue by GivEnergy dependant on the type of installation.(Inverters and Batteries)
6. When updating Inverter Firmware, please ensure that the inverter sounds before removing the USB device from the bottom of the inverter.(Some Updates require a 2 part software upgrade, so please ensure that it is not removed before the inverter Bleeps. This can cause a corruption of the software files)
7. When updating Battery Firmware, please ensure that all Firmware files are present on the USB memory device before inserting into the Battery BMS.(After battery update, firmware files are deleted from the USB to prevent the battery from getting stuck in an update loop, so files will need to be re written in order to update a second battery pack.)
8. All GivEnergy Systems shall be installed in accordance with BS7671:2018 Wiring Regulations and also Manufacturer's instructions.
9. Adequate Mechanical protection shall be used in accordance with the manufacturers instructions on single insulated DC Battery cables. There are many types of containment that will provide adequate protection as per the manufacturers instructions, i.e. Conduit, Copex (Flexible conduit) or trunking/Tray.
10. If installed with Smart meters, a minimum of 0.5mm<sup>2</sup> 2 core shielded cable shall be used to for communication between the inverter and the Smart Meter. This is to ensure that the inverter can talk directly to the meter without any interference from any other current carrying conductors.(Please note the system calculates its operation via the information provided by the meter, so if this connection is not sound, the system may not operate to its optimum efficiencies).

## Minimum Size MCB for AC supply to GivEnergy Inverters

2.5mm Radial supply = Type C 20A MCB

4.0mm Radial Supply = Type C 32A MCB

A type C Circuit Breaker is used as it is more susceptible to a higher start up currents when remotely charging/discharging the Battery Packs.

For any other queries around installation, please email me [dan.lambert@givenergy.co.uk](mailto:dan.lambert@givenergy.co.uk)

## Installation Reference Images





