

Enphase IQ Battery 5P – UK Tips & Tricks

Retrofitting IQ Battery 5P to existing Enphase M-Series Microinverters

Adding the IQ Battery 5P storage solution alongside existing M-Series Microinverters is a simple and valuable process. This document highlights the process and materials required to achieve this.

Retrofitting the Enphase IQ Battery 5P to the system owner's solar PV installation, provides an effective and modular storage solution. The battery has a usable energy capacity of 5.0 kWh and is able to provide a rated output of 3.2 kVA. Once commissioned, the system owner will be able to view both battery and system level data all within the Enlighten App.

Enphase Materials required:

1. **IQ Battery 5P**
2. **IQ Gateway Standard** (this should **already be installed** onsite, enabling the M-Series Microinverters to communicate).
3. **IQ Gateway Metered (with CTs)** (this is required in addition to any preexisting gateway's that are onsite). The additional gateway enables two different grid profiles to be applied between the M-series microinverters and the 5P battery. The metered gateway will also enable the measurement of both site production and site consumption.
4. **Communication Kit 2**
5. **Control cable** ([BELCOM 4302P2254-0122AWG 2P 430 SERIES](#))

Installation:

1. It is suggested the existing M-Series Enlighten site is renamed to “[site name] – Solar”.
2. The existing Gateway for the M-Series installation should remain as-is with the IQ Gateway Standard (without any CTs). No modifications are required to the PV installation.
3. When installing the IQ Gateway Metered for the IQ Battery system, the production CT is fitted to the line conductor of the AC cable from the microinverter circuit(s) and the consumption CT is fitted, as normal at the meter tails.
4. Using the Enphase Installer App, create a new Enlighten site for the IQ Gateway Metered and IQ Batteries.
5. Register the new site using the identical site and user details as “[site name] – Solar”. It is suggested the new Enlighten battery only site is named as “[site name] – Battery”.
6. When assigning the new site to the existing user account, the Installer App will give a pop-up message to say this user is already associated with another site. You can select OK and proceed, this is expected.
7. When defining the ‘Devices and Array’ for the new IQ Battery site, and there are no microinverters in the system, select the option for ‘Third Party PV Inverter’. This is important because only measurements from the CTs are being used to control the IQ Battery behaviour.
8. Once fully activated, the system owner will be able to see both sites under their same login in the Enlighten app.
9. If the system owner looks at the Battery site in the Enlighten App, they will only see battery and system level data. They will need to look at the Solar site to see the individual M-Series Microinverter data.



NOTE: For more information and a step by step guide on the installation of the IQ Battery 5P, see the [Enphase IQ Battery 5P Quick Install Guide](#)