



G100 Issue 2 Amendment 2



Installers in Great Britain need to comply with the C100 regulations - are you ready?

As more people adopt low carbon technologies in their homes and businesses (PV generation, storage, heat pumps, EV charging points and more), higher loads are imposed on the Distribution Networks. The Customer Limitation Scheme (G100) is designed to monitor and control the export/import limits set by the DNO and installer.

Learn more about these new regulations to ensure that you choose a PV system that meets your customer's needs, today and tomorrow. Making the right selection can help avoid costly changes later on.

Requirements for inverters:

- Export limitation - inverters with an amperage value above 16 A (3.68 kW)
 - The limitation is set independently by each Distribution Network Operator (DNO)
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Requirements for other devices:

- Smart energy devices, batteries, or EV Chargers must be monitored and controlled by a G100 device, even when the inverter is 16 A or smaller
 - Storage devices require import and export limitations, monitoring and control
 - Smart energy devices and EV Chargers require import monitoring and control
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What does the G100 device do?

- Monitors and controls the electricity current for import and export – it can be set to any value
 - Shuts down production if/when the export exceeds the limit
 - Shuts down the EV charger, battery, and smart energy devices if import exceeds the limit
 - Must comply with four states of operation, two of which are lockout modes:
 1. Normal operation
 2. Occasional excursion (can exceed limit for up to 15 seconds)
 3. Failed – repeated entrance to 2 leads to reduction of production/import or switching off the device
 4. Operation without CLS – devices switch off
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- **Installers** must use type tested PV inverters, EV chargers, EESS (Electrical Energy Storage System) and smart devices installed after May 1st, 2023 to G100 Issue 2 Amendment 2 – and provide proof to homeowner
 - **Homeowners** must retain this documentation
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Are you an installer elsewhere in the United Kingdom?

- Export limitation of inverters with an amperage value above 16 A (3.68kW)
 - Limitation is set independently by each DNO
 - Addition of storage and/or smart energy devices necessitates the installation of a G100 controlling device, to monitor and control import and export
 - Installation of an EV Charger would require filling out a form in addition to the meter
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SolarEdge Home controls all the import and export for the site

The SolarEdge Energy Meter reports on the import and export of the site to the inverter, which automatically regulates PV production, as well as import on supported devices. It will synchronise all site devices including the SolarEdge Home Battery, SolarEdge EV Charger, and/or SolarEdge Home smart energy devices to adhere to the limits set for the system.

The Bottom Line:

Pay attention to the requirements to avoid unnecessary expense and reinstallation.

Although it is possible to mix and match products from different manufacturers, each of those devices will require a separate G100 controlling device which in turn increases the probability of system failure.

Regardless of the size of the installation today, think ahead and select a system that has all the components you may need from one manufacturer.

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