

FAQ - Is it possible to feed excess of solar energy into the grid?

In a grid-connected system, it is possible to feed excess solar energy into the grid, if grid injection is authorized. Please confirm with the local regulation and utility directives if grid feeding is allowed in your country and for your specific situation.

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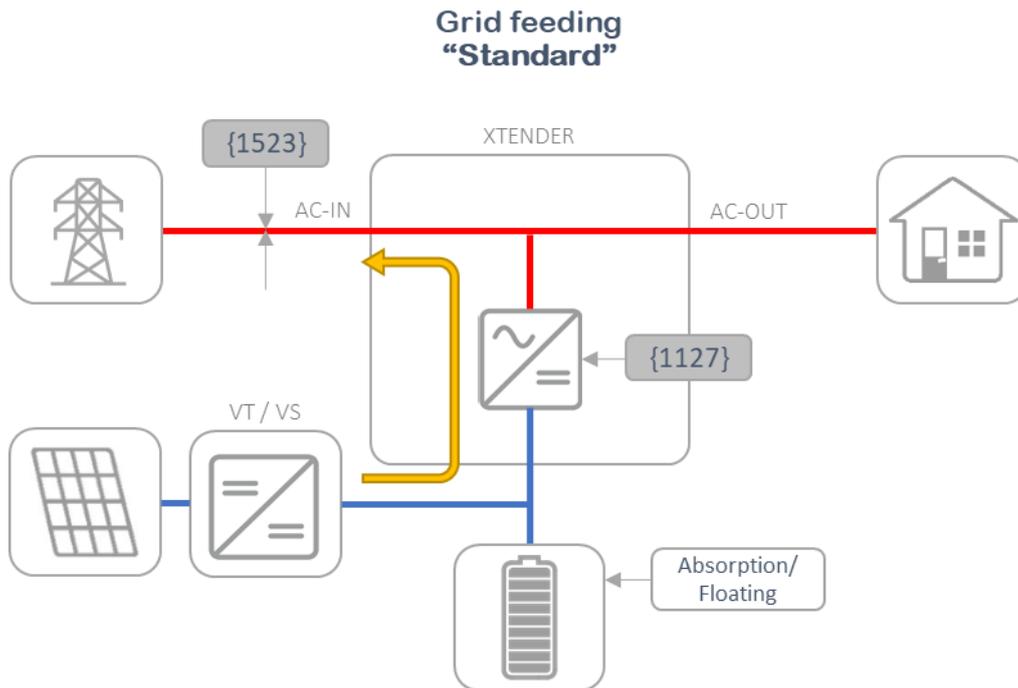
Be careful with the grid-feeding function. Always respect the rules in force prescribed by your utility. Grid feeding with inverters connected to batteries is forbidden in some countries.

There is no ENS function or any other similar function linked with the grid-feeding function of the Xtender. You can add an external ENS detector.

There are two possible configurations for the grid feeding function:

1) Standard grid feeding

In this configuration, the system will inject excess energy from the solar system to the grid. The solar energy is used first to supply loads and charge the battery. Additional energy is injected to the grid, only when the battery is in absorption or floating phase.



Device	Xtender settings	N°	Description	Value
XT	Grid feeding	1127	Grid feeding allowed	Yes
XT	Grid feeding	1523	Max. feeding current	10 Aac*

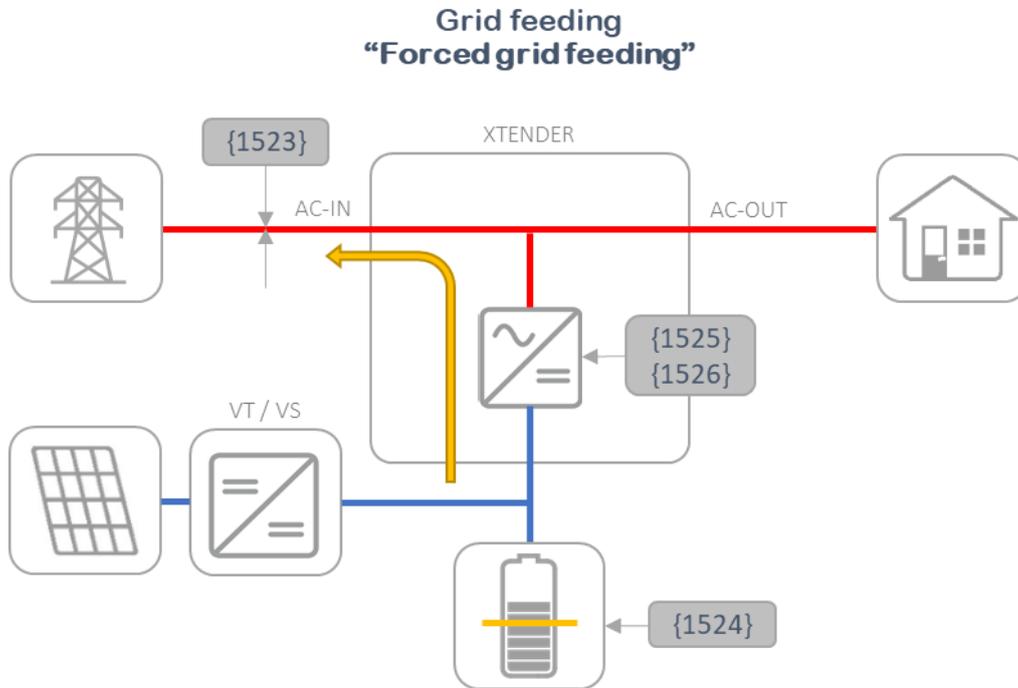
**The maximum current of the source is respected {1107} (Input limit).*

2) Forced grid feeding

With the forced grid feeding it is possible to discharge the batteries towards the grid during a given time frame. Thus, between the start time {1525} and the stop time {1526}, the Xtender will feed current

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from the batteries to the grid, discharging the batteries up to {1524} Battery voltage target for forced grid feeding.



Device	Xtender settings	N°	Description	Value
XT	Grid feeding	1524	Battery voltage target for forced grid feeding	48 Vdc*
XT	Grid feeding	1525	Forced grid feeding starting time	hh:mm
XT	Grid feeding	1526	Forced grid feeding stop time	hh:mm

**To be adjusted to the desired value.*

Grid feeding regulation

The grid feeding function will apply the frequency control strategy, reducing linearly the feeding current when the frequency is above the nominal frequency of the inverter. In addition, this function has a protection for limiting the power when the grid voltage is too high.

Please check our RCC manual for further description on the configuration of this limit and control.

Grid feeding with AC Coupling

The grid feeding function from the Xtender is only related to the energy fed into the grid by the Xtender from the DC side (battery). In a system with a solar inverter coupled in AC, the grid function from the Xtender does not control or limit the energy fed into the grid by the solar inverter. For this, an external controller will be required. Please check the following description for [configuring AC coupled](#) system and contact us for further assistance.

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