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Selectronic Certified Grid-Tie Inverters

Selectronic Managed AC Coupling

To utilise all of the possibilities of an **SP PRO**, it needs to work with a Selectronic Certified grid-tie inverter.

A red rectangular stamp with a distressed, ink-like border. Inside the stamp, the words 'SELECTRONIC CERTIFIED' are written in a bold, red, sans-serif font.

These inverters contain hardware and software to enable direct communication with the SP PRO. This means that the SP PRO has control of the flow of energy from the solar panels with as fine control as 0.1% steps. This is known as Managed AC Coupling technology which was developed by Selectronic in 2010, and cannot be achieved with a generic grid-tie inverter.

The Selectronic Certified grid-tie inverter can be considered as an AC MPPT. By creating an AC Bus, an AC coupled system will allow PV energy to be efficiently used directly by the load with excess PV energy going back through the multi-mode SP PRO to charge batteries or export to the grid.

smallest.

When using a Selectronic Certified grid-tie inverter, site consumption and generation data will be logged by the SP PRO including the AC coupled solar production.

When to use Selectronic Certified grid-tie inverters

We recommend a Selectronic Certified grid-tie inverter for maximum system efficiency and flexibility, however one **must** be used with an SP PRO in the following situations:

- Off-grid AC coupling
- Solar Hybrid AC coupling with **Fixed Export Limit** requirements (with or without batteries)
- Solar Hybrid AC coupling where twice the PV to SP PRO rating is required

Want solar but not ready to add battery storage?

Using a Selectronic Certified grid-tie inverter allows you to have a grid-tie solar power system today and add a fully managed battery storage system at a later date. This is a cost-effective, future ready solution.

Benefits of using Selectronic Certified:

- The total AC output of the combined grid-tie inverters can be up to twice the continuous power rating of the SP PRO or the SP PRO 30 second rating, whichever is smallest.
- Maximise battery life via precise charging control
- No frequency variations to the loads.
- All system data is captured by SP LINK software
- Full support from Selectronic

Currently we have Selectronic Certified inverters from both **ABB** and **Fronius**.

BR0019_02 Selectronic Managed AC Coupling Data Sheet November 2020 (PDF 1.16 MB)

Selectronic Certified Grid Tie inverters

ABB Solar Inverters



Please note that the FIMER Group completed the acquisition of the ABB solar division in March 2020. All ABB inverters are now manufactured under a trade license agreement with FIMER Group and some inverters may state this on inverter cover plates and literature.



Model Number	Phases	AC Output	No of MPPTs	MPPT range
UNO-DM5.0Q-CERT	1	5.0 kW	2	170 - 480V DC
UNO-DM6.0Q-CERT	1	6.0 kW	2	200 - 480V DC

Compatibility:

- SP PRO Series 2i
- SP PRO Series II - Hardware revision 21 or higher

Datasheets:

[FIMER_UNO-DM-1.2-5.0-TL-PLUS-Q_EN_RevA](#) (PDF 220 kB)

[FIMER_UNO-DM-6.0-TL-PLUS-Q__EN_Rev_A](#) (PDF 178 kB)

Installation Notes:

[IN0053_05 SP PRO ABB UNO Managed AC Coupling Installation Notes](#) (3.54 MB)

Quick Reference Installation Overview:

[BR0021_01 Selectronic SP PRO ABB UNO Q Installation Overview Poster](#) (636 kB)



Model Number	Phases	AC Output	No of MPPTs	MPPT range
PRIM3.0-1W-CER	1	3.0kW	2	80 - 800V DC
PRIM4.0-1W-CER	1	4.0kW	2	80 - 800V DC
PRIM5.0-1W-CER	1	5.0kW	2	80 - 800V DC
PRIM6.0-1W-CER	1	6.0kW	2	80 - 800V DC
PRIM8.2-1W-CER	1	8.0kW	2	80 - 800V DC
SYM8.2-3W-CER	3	8.2 kW	2	150 - 800V DC
SYM10.0-3W-CER	3	10.0 kW	2	200 - 800V DC
SYM12.5-3W-CER	3	12.5 kW	2	200 - 800V DC
SYM15.0-3W-CER	3	15.0 kW	2	200 - 800V DC
SYM20.0-3W-CER	3	20.0 kW	2	200 - 800V DC

Compatibility:

- SP PRO Series 2i
- SP PRO Series II
- SP PRO Series I - additional AC coupling adaptor is required (order code 005077)

Installation Notes:

Quick Reference Installation Overviews:

[BR0017_01 Fronius Primo and SP PRO Series 2i Installation Overview Poster \(640 kB\)](#)
[BR0020_01 Fronius Symo and SP PRO Series 2i Installation Overview Poster \(780 kB\)](#)