

The foundation of the ultimate solar power system

A Selectronic Certified grid-tie inverter is the first step in building a system with maximum efficiency and ultimate flexibility using Selectronic's Managed AC Coupling technology.



Managed AC Coupling with Selectronic Certified grid-tie inverters

Using our highly acclaimed Managed AC Coupling topology, the SP PRO controls the PV output in 1% increments, allowing for perfect control of your solar power system.

Want solar but not ready to add battery storage?

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

Benefits of using Selectronic Certified

- ① No frequency changes when off-grid or when grid has failed
- ① Precise battery charging
- ① Grid inverter data is displayed in SP LINK monitoring software
- ① Allows for small capacity batteries to be connected
- ① Allows for utility-controlled battery discharging (if grid-connected)
- ① Allows more AC coupled PV in grid-connect systems
- ① Allows more PV to be connected and available when grid fails
- ① Export limiting capability when grid-connected with an SP PRO
- ① Go completely off-grid when AC coupled with an SP PRO
- ① Allows a backup generator to be connected when AC coupled with an SP PRO

Grid Independence | Outstanding Reliability | Ultimate Flexibility

SELECTRONIC CERTIFIED

Selectronic Managed AC Coupling

Managed AC Coupling technology was developed by Selectronic in 2010. It allows the SP PRO to take control of the flow of energy from the solar panels in 1% steps to precisely control the solar power system while maintaining a stable 50 Hz frequency. This 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.

A maximum of five (5) Selectronic Certified inverters can be controlled by any single SP PRO, allowing for distributed PV across the site.

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

- ☞ Off-grid AC coupling
- ☞ Solar Hybrid AC coupling with Fixed Export Limits
- ☞ Solar Hybrid AC coupling where twice the PV to SP PRO rating is required

Current range of Selectronic Certified grid-tie inverters:

ABB PVI

Model Number	AC Output	No MPPTs	MPPT range	Warranty
PVI-3.0-TL-OUTD-SCERT	3.0 kW	2	160-530 V	5 years ABB T&Cs apply
PVI-3.6-TL-OUTD-SCERT	3.6 kW	2	120-530 V	
PVI-4.2-TL-OUTD-SCERT	4.2 kW	2	140-530 V	
PVI-5000-TL-OUTD-SCERT	5.0 kW	2	150-530 V	
PVI-6000-TL-OUTD-SCERT	6.0 kW	2	180-530 V	

Fronius Primo

Model Number	AC Output	No MPPTs	MPPT range	Warranty
Primo 3.0-1 WLAN-SCERT	3.0 kW	2	200 - 800 V	5 + 5 years Fronius T&Cs apply
Primo 4.0-1 WLAN-SCERT	4.0 kW	2	210 - 800 V	
Primo 5.0-1 WLAN-AUS SCERT	4.6 kW	2	240 - 800 V	
Primo 6.0-1 WLAN-SCERT	6.0 kW	2	240 - 800 V	
Primo 8.2-1 SCERT	8.2 kW	2	270 - 800 V	