

# Fronius sector coupling solution

With Fronius GEN24 Plus or Verto Plus <sup>1</sup>, compatible battery storage <sup>2</sup>, Fronius Wattpilot <sup>3</sup>, Fronius Ohmpilot <sup>4</sup> and Fronius Smart Meter <sup>5</sup>



## All benefits at a glance

- 01 Maximum utilization of PV energy
- 02 Independence from rising electricity prices
- 03 Perfectly integrated system
- 04 Smart energy management
- 05 Demand-based backup power variants
- 06 Comprehensive graphic visualization in Solar.web

# What is needed for implementation?

Device	Type	Notes
Fronius inverter	Fronius Primo/Symo GEN24	A GEN24 Plus or Verto Plus is required for battery operation and Full Backup operation
	Fronius Primo/Symo GEN24 Plus	
	Fronius Verto Plus	
	optional: Fronius SnapINverter Primo/Symo/Symo Advanced Eco with Datamanager 2.0	No data line to the Fronius GEN24 Plus required. Components only need to be added to the same Solar.web system. Battery charging only possible via GEN24 Plus. "Allow battery charging from other generators in the home network" must be activated on the GEN24 Plus user interface.
Battery storage	Option 1: Fronius Reserva	Compatible types of the Fronius Reserva: 6.3 / 9.5 / 12.6 / 15.8 Compatibility of the individual storage types differ for Fronius Primo and Symo GEN24 Plus and Fronius Verto Plus!
	Option 2: BYD Battery-Box Premium HVS/HVM	Types compatible with BYD Battery-Box Premium HVS: HVS 5.1 / HVS 7.7 / HVS 10.2 / HVS 12.8 Types compatible with BYD Battery-Box Premium HVM: HVM 11.0 / HVM 13.8 / HVM 16.6 / HVM 19.3 / HVM 22.1 Compatibility of the individual storage types differ for Fronius Primo and Symo GEN24 Plus and Fronius Verto Plus!
Charging solution for electric cars	Fronius Wattpilot Flex Home	The permanently installed Wattpilot Flex Home for the home, incl. type 2 charging cable.
	Fronius Wattpilot Flex Pro	The permanently installed Wattpilot Flex Pro, incl. type 2 charging cable. It features an integrated MID meter that allows for precise billing of the charged kilowatt-hours. The metering and calibration law conformity ensures the transparent billing required in Wattpilot Flex Pro 22 C6E countries such as Germany.
	Fronius Wattpilot Go	The mobile Wattpilot Go for on the go.
	Fronius Wattpilot Home	The permanently installed Wattpilot Home for the home.
Heating solution	Fronius Ohmpilot 9.0-3	Management of ohmic loads (heating elements, infrared panels, etc.) Infinitely variable control from 0-9 kW Combinable with heat pump
	Heating element: 1-phase up to max. 3 kW 3-phase up to max. 9 kW	Neutral conductor must always be installed
	Recommended: PT 1000 temperature sensor	Option to set the minimum or setpoint temperature Optimum use of surpluses only possible with PT1000
Energy meter	Fronius Smart Meter 63A-1, 63A-3, 50kA-3	Current transformers with an output current of 5 A must be used for the Fronius Smart Meter 50kA-3
	Fronius Smart Meter TS 100A-1, TS 65A-3, TS 5kA-3	Current transformers with an output current of 5 A must be used for the Fronius Smart Meter TS 5kA-3
	Fronius Smart Meter IP	Current transformers with an output voltage of 333 mV must be used for the Smart Meter IP



You can find detailed information on our heating, e-mobility and battery storage solutions here.

# Backup power options

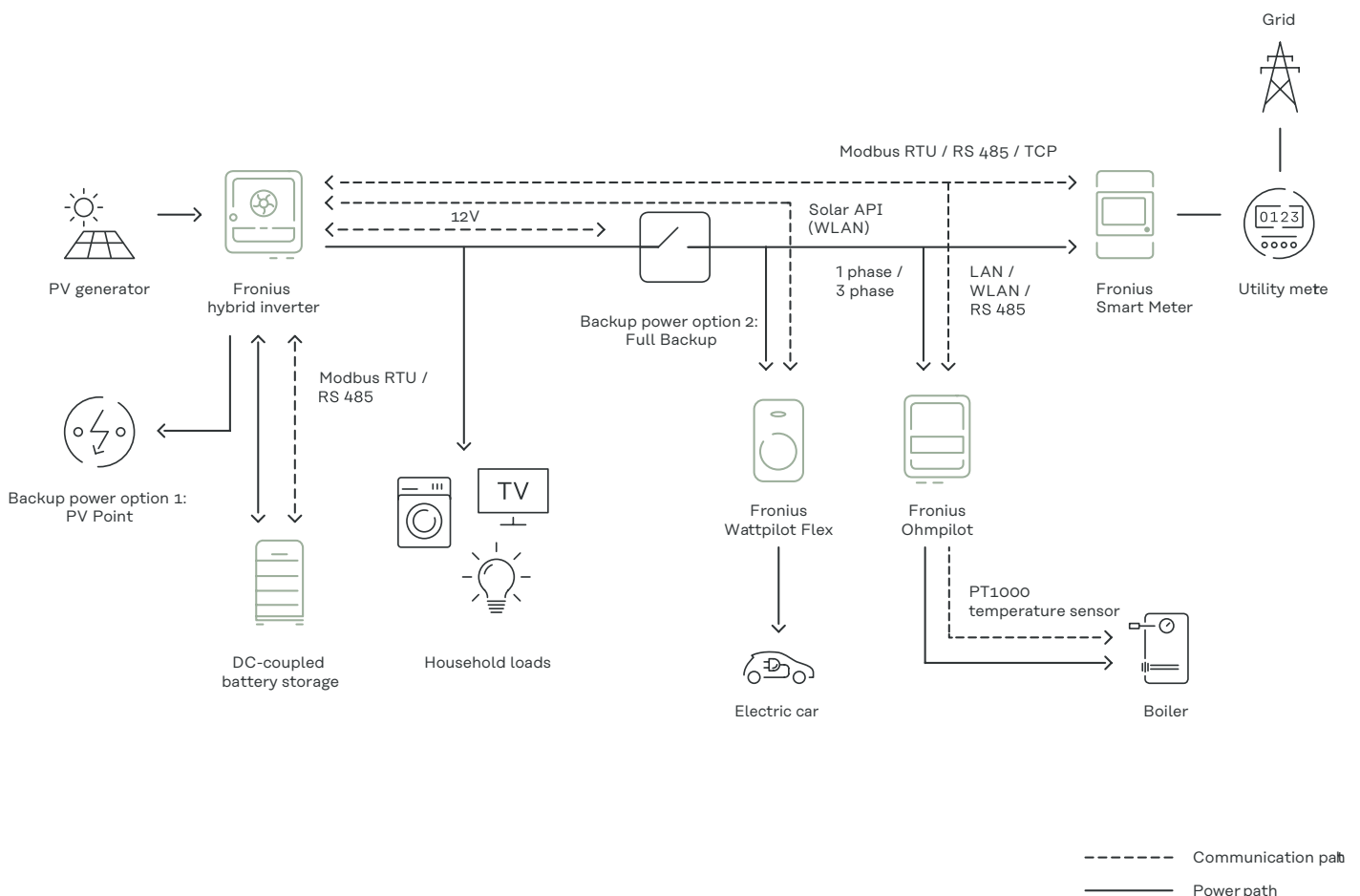
Device	Type	Notes
Backup power variants*	PV Point (on board)	Socket supplied during backup power operation Single-phase power up to 3 kW Optional battery storage Fuse protection with 30 mA type A RCD required
	PV Point Comfort	Continuously supplied socket (backup power supply and parallel grid operation) Single-phase power up to 3 kW Optional battery storage Fuse protection with 30 mA type A RCD and 13 A line protection required
	Full Backup**	Backup power supplies the entire household when needed (1-phase and 3-phase) Manual or automatic changeover possible Battery storage required An additional switchover device such as the Fronius Backup Controller or Fronius Backup Switch is required***

\*Only one backup power option can be implemented. The PV Point and PV Point Comfort are not available for the Fronius Verto Plus.

\*\* The Full Backup option is not available for the Fronius Symo GEN24 3.0 - 5.0 Plus.

\*\*\* The requirements for this switchover vary from country to country – please contact your grid operator.

## Configuration scheme



# Energy Cost Assistant

- Automatic optimization of the use of the PV system and battery storage for lower electricity costs.
- AI-supported analyses continuously adapt the storage strategy to PV yield, consumption and electricity prices.
- Intelligent use of prices: the battery is charged at low electricity prices.
- Peak load management reduces high consumption peaks and avoids expensive tariffs.
- Easy integration: no additional hardware required, everything can be controlled directly in the Solar.web app.

Solution	Type	Notes
AI-supported Energy-management	Fronius Energy Cost Assistant*	To use the Fronius Energy Cost Assistant, you need a Fronius PV system with GEN24 Plus, a Fronius Smart Meter and a compatible battery storage system. In addition, a flexible electricity tariff and the use of the premium version of Fronius Solar.web are required.

\*The Fronius Energy Cost Assistant is only available in selected countries. In Germany a Smart Meter IP is required for the Energy Cost Assistant.

## Monitoring & Digitale Tools.

The right digital tool for every phase of the PV system.

Whether you are planning, commissioning, monitoring or servicing, we support you in your work as an installer so that you can provide your customers with the best advice and support at all times. And all this is done in a particularly user-friendly, detailed and secure manner. The Fronius Solar.creator enables location-independent planning, including the simulation of extensions with Fronius Solar.web. Fronius Solar.start makes commissioning more efficient by guiding you through the set-up in three steps. Once the PV system is successfully in operation, Fronius Solar.web provides comprehensive monitoring for data-based performance optimization. In the event of a fault, Fronius Solar.SOS provides round-the-clock support with fault diagnosis and spare part ordering in your local language.

### Any questions?



Here you will find our how-to videos



You can access recordings of our webinars here.

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