

Fronius Battery Storage Solution

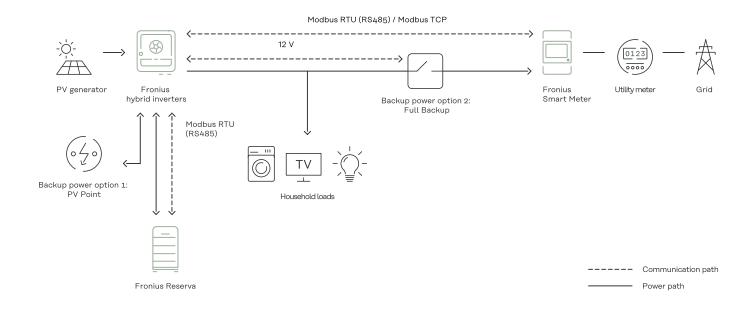
With Fronius hybrid inverters¹, Fronius Smart Meter² and Fronius Reserva³



All benefits at a glance

- 01 One-stop-shop
- 02 Use PV energy, even at night
- 03 Demand-based backup power variants
- 04 Simultaneous supply and charging also possible when using backup power
- 05 High self-consumption and selfsufficiency rates
- 06 Unsurpassed system efficiency thanks to DC coupling

Configuration scheme:



What is needed for implementation?

Device	Туре	Notes
Fronius Inverter	Fronius Primo/Symo GEN24 Plus Fronius Verto Plus	Depending on the type of inverter and the type and capacity of the battery
Batterie- speicher	Fronius Reserva	Types compatible with 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!
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
Ene	Fronius Smart Meter IP	Current transformers with an output voltage of 333 mV must be used for the Fronius Smart Meter IP
Communication	Inverter – battery	The inverter communicates with the battery via a shielded, 4-pole cable (CAT5 and higher) via Modbus RTU (RS485). To ensure error-free functionality, the inverter and the battery must always have the latest software update. The software update of the inverter can be activated via Fronius Solar.web.
	Inverter – Smart Meter & Smart Meter TS	Cable connection (CAT5 and higher) via Modbus RTU (RS485)
	Inverter – Smart Meter IP	Cable connection (CAT5 and higher) via Modbus RTU (RS485) or via Modbus TCP (WLAN, LAN)

Backup power options

Device	Туре	Notes	
Notstromvarianten*	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 Additional contactors for switchover or auxiliary relays are required***	

* Only one backup power variant can be implemented. 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.

Nominal DC-charge/discharge power [kW]

with Fronius hybrid inverters*

	Reserva 6.3	Reserva 9.5	Reserva 12.6	Reserva 15.8
Primo GEN24 3.0 Plus	3.0 kW	3.0 kW	-	-
Primo GEN24 3.6 Plus	3.6 kW	3.6 kW	-	-
Primo GEN24 4.0 Plus	4.0 kW	4.0 kW	-	-
Primo GEN24 4.6 Plus	4.5 kW	4.6 kW	-	-
Primo GEN24 5.0 Plus	4.5 kW	5.0 kW	-	-
Primo GEN24 6.0 Plus	4.5 kW	6.0 kW	-	-
Primo GEN24 8.0 Plus	4.5 kW	6.75 kW	-	-
Primo GEN24 10.0 Plus	4.5 kW	6.75 kW	-	-
Symo GEN24 3.0 Plus	2.56 kW	3.0 kW	3.0 kW	3.0 kW
Symo GEN24 4.0 Plus	2.56 kW	3.84 kW	4.0 kW	4.0 kW
Symo GEN24 5.0 Plus	2.56 kW	3.84 kW	5.0 kW	5.0 kW
Symo GEN24 6.0 Plus	4.5 kW	6.0 kW	6.0 kW	6.0 kW
Symo GEN24 8.0 Plus	4.5 kW	6.75 kW	8.0 kW	8.0 kW
Symo GEN24 10.0 Plus	4.5 kW	6.75 kW	9.01 kW	10.0 kW
Symo GEN24 12.0 Plus SC	4.5 kW	6.75 kW	9.01 kW	11.26 kW
Verto Plus 15.0	6.55 kW	9.83 kW	13.1 kW	15.0 kW
Verto Plus 17.5	6.55 kW	9.83 kW	13.1 kW	16.38 kW
Verto Plus 20.0	6.55 kW	9.83 kW	13.1 kW	16.38 kW
Verto Plus 25.0	6.55 kW	9.83 kW	13.1 kW	16.38 kW
Verto Plus 30.0	6.55 kW	9.83 kW	13.1 kW	16.38 kW
Verto Plus 33.3	6.55 kW	9.83 kW	13.1 kW	16.38 kW

* This data refers to the DC charge and discharge power. The DC discharge power varies from the AC power that reaches the loads in the home, since the efficiency rate of the inverter must also be included here.

Parallel Operation Fronius Reserva

Thanks to the expandability of the Fronius Reserva, up to 4 batteries can be operated in parallel on a Fronius GEN24 Plus or Fronius Verto Plus inverter. The advantage of operating multiple storage units in parallel is that high capacities can be achieved. This means that even small commercial systems can be equipped with the combination of Fronius hybrid inverters and Fronius Reserva.

The following table shows the possible combinations depending on the inverter and storage type:

	Parallel operation of up to 4 batteries					
	Reserva 6.3	Reserva 9.5	Reserva 12.6	Reserva 15.8		
Primo GEN24 Plus	\checkmark	\checkmark	-	-		
Symo GEN24 Plus	\checkmark	\checkmark	\checkmark	\checkmark		
Verto Plus	\checkmark	\checkmark	\checkmark	\checkmark		

Backup Accessories & Digital Tools



Backup power for every eventuality

With the **Fronius Backup Controller & Backup Switch**, you can switch to full backup power operation either automatically or manually. These cost-effective switching components can be installed in the control cabinet to save space and eliminate the need for additional hardware such as switch boxes.



Everything under control

With our **Fronius Solar.web monitoring tool**, you can keep an eye on your PV system any time, anywhere, keeping your energy transition on track, simply by using it in our app or on the web.

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