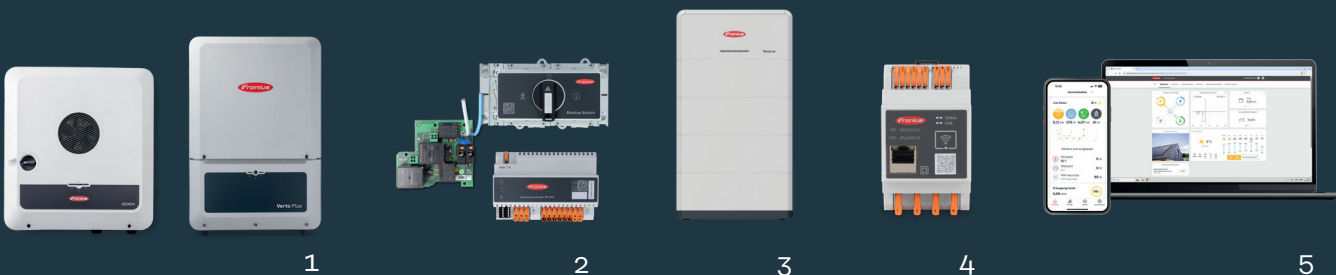


Fronius Backup power solution

With Fronius GEN24 [Plus] or Verto Plus¹, backup power switching components², compatible batteries³, Fronius Smart Meter⁴ and Energy Cost Assistant⁵



All benefits at a glance

- 01 Customised backup power solutions
- 02 Everything from a single source
- 03 Black start capable
- 04 Space-saving installation
- 05 Supply for the entire household
- 06 Real three-phase AC

Our products



Fronius GEN24 & GEN24 Plus

- Power classes: 3 - 12 kW
- Active Cooling Technology
- Integrated basic backup power supply
- Two MPPTs and maximum yield
- Shading management included
- On-site repair option
- Overvoltage protection type 1+2 can be integrated
- Integrated load management



Fronius Verto Plus

- Power classes: 15 – 33 kW
- Three MPPTs for maximum flexibility
- Highest unbalanced load capability
- Short-term backup peak power up to 30/50 kVA
- Integrated AC Type 2 & DC Type 1+2 surge protection
- Maximum battery power

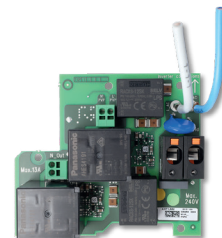


at a glance



PV Point Comfort

- Retrofit board for the GEN24
- 1-phase up to 3 kW continuous power
- Battery storage optional
- Supplies a protected socket or circuit during a power failure and also in parallel grid operation



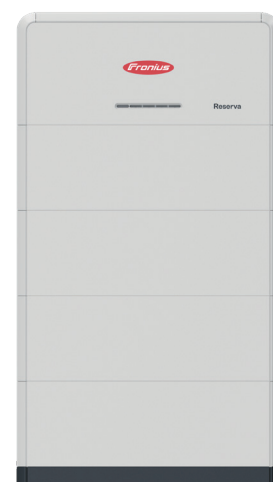
Fronius Backup Controller & Backup Switch

- Automatic or manual switchover
- Space-saving installation in the control cabinet
- Flexible solutions for various backup requirements



Fronius Reserva

- DC-coupled high-voltage battery for virtually loss-free charging
- State-of-the-art LFP technology (lithium iron phosphate)
- Capacities of 6.3, 9.5, 12.6 and 15.8 kWh per tower - can be expanded in retrospect
- Charging and discharging power up to 11.2 kW
- Fully automatic commissioning (Fronius Solar.start app)
- Slim and space-saving design





Everything for energy security

01 Customised backup power solutions

You can rely on Fronius when it comes to backup power. Our backup power portfolio includes the right solution for every household. Whether a single-phase or three-phase supply for a single socket or the entire house, with automatic or manual switching, including or excluding energy storage - a customised system fulfils all customer requirements.

02 Everything from a single source

When it comes to energy security, those who count on Fronius rely on perfectly matched backup power components. From the inverter with integrated PV Point to the separate PV Point Comfort through to switching components we supply everything from a single source in European brand quality

03 Black start capable

With Fronius backup power components, PV systems can start up independently in the event of a prolonged power failure, supply loads and charge the battery for as long as PV energy is available - without any power from the grid.

04 Space-saving installation

No space? No problem. The Fronius Backup Switch and Backup Controller eliminate the need for external switching boxes. Our manual and automatic switching components are installed in the control cabinet to save cables and space.

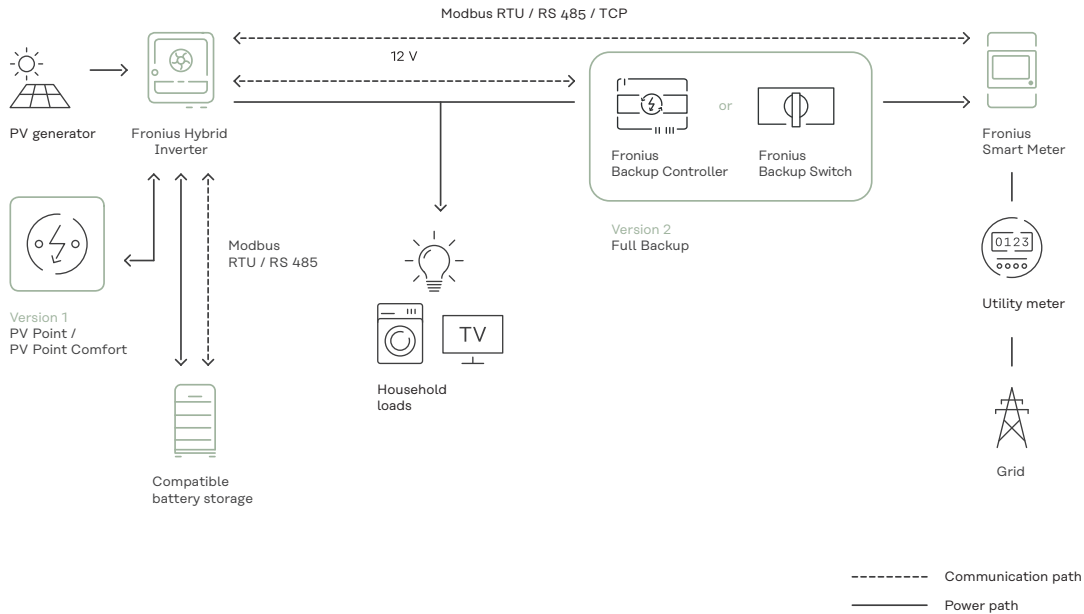
05 Supply of the entire household*

The Full Backup functions from Fronius enable an backup power supply for all consumers in the household with maximum energy utilisation through simultaneous charging of the energy storage system.

06 Three-phase current

Fronius is the ideal solution for power-intensive loads. The Fronius Symo GEN24 Plus 6.0 – 12.0 and the Fronius Verto Plus generate genuine three-phase alternating current for maximum performance even in backup power mode.

**If load in the household < PV production/discharge capacity of the storage system*



PV Point:

- Integrated backup power function
- Supplied socket in the event of a power outage*
- 1-phase up to 3 kW continuous power
- Optional battery storage

Device	Type	Notes
Fronius Inverter	Fronius Primo/Symo GEN24	The backup power frequency can be set on the inverter user interface in the range between 45 and 55 Hertz.
	Fronius Primo/Symo GEN24 Plus	
Protection	Residual current circuit breaker type A 30 mA	
Energy meter	Fronius Smart Meter 63A-1, 63A-3, 50kA-3	For the Fronius Smart Meter 50kA-3, current transformers with an output current of 5 A must be used
	Fronius Smart Meter TS 100A-1, TS 65A-3, TS 5kA-3	For the Fronius Smart Meter TS 5kA-3, current transformers with a TS 100A-1, TS 65A-3, TS 5kA-3 output current of 5 A Must be used
	Fronius Smart Meter IP	For the Smart Meter IP, current transformers with an output voltage of 333 mV must be used
optional		
Battery storage**	Fronius Reserva	Compatible types of the Fronius Reserva: 6.3 / 9.5 / 12.6 / 15.8
	Compatible third-party storage: BYD Battery-Box Premium HVS/ HVM & LG FLEX	Compatible types of the LG FLEX: 8.6; 12.9; 17.2 Compatible types of the BYD Battery-Box Premium: HVS 5.1; HVS 7.7; HVS 10.2; HVS 12.8; HVM 11.0; HVM 13.8; HVM 16.6; HVM 19.3; HVM 22.1

*The socket is not included in the scope of delivery.

** The compatibilities of the individual storage types with Fronius Primo and Symo GEN24 Plus differ.

What is needed for the implementation?

PV Point Comfort:

- Retrofit circuit board for the GEN24
- Supplies a socket or circuit in the event of a power outage and also in mains parallel operation*
- 1-phase up to 3 kW continuous power
- Optional battery storage

Device	Type	Notes
Fronius Inverter	Fronius Primo/Symo GEN24	The backup power frequency can be set on the inverter user interface in the range between 45 and 55 Hertz.
	Fronius Primo/Symo GEN24 Plus	
PV Point Comfort	Article number 4,240,315,CK	Is installed in the connection area of the inverter Can also be retrofitted in inventory
Protection	Residual current circuitbreaker type A 30 mA	If required, a line protection device with a maximum of 16A can also be used for protection. However, a maximum of 13A can be provided in backup power mode
	Line protection recommended 13 A; maximum 16A	
Energy meter	Fronius Smart Meter 63A-1, 63A-3, 50kA-3	For the Fronius Smart Meter 50kA-3, current transformers with an output current of 5 A must be used
	Fronius Smart Meter TS 100A-1, TS 65A-3, TS 5kA-3	For the Fronius Smart Meter TS 5kA-3, current transformers with a TS 100A-1, TS 65A-3, TS 5kA-3 output current of 5 A Must be used
	Fronius Smart Meter IP	For the Smart Meter IP, current transformers with an output voltage of 333 mV must be used
optional		
Battery storage**	Fronius Reserva	Compatible types of the Fronius Reserva: 6.3 / 9.5 / 12.6 / 15.8
	Compatible third-party storage: BYD Battery-Box Premium HVS/ HVM & LG FLEX	Compatible types of the LG FLEX: 8.6; 12.9; 17.2 Compatible types of the BYD Battery-Box Premium: HVS 5.1; HVS 7.7; HVS 10.2; HVS 12.8; HVM 11.0; HVM 13.8; HVM 16.6; HVM 19.3; HVM 22.1

*The socket is not included in the scope of delivery.

** The compatibilities of the individual storage types with Fronius Primo and Symo GEN24 Plus differ.

Backup services for PV Point and PV Point Comfort:

	Primo GEN24 & GEN24 Plus	Symo GEN24 & GEN24 Plus
Power [VA] - Permanent	3000	3000
Power [VA] - Overload 5 sec.	4700	4133

Full Backup:

- Complete supply of the entire household with full AC output power
- Maximum supply through manual or automatic switching
- Space-saving installation directly in the switch cabinet
- Fronius Symo GEN24 6.0 - 12.0 Plus and Verto Plus supply 1- and 3-phase electrical loads including real 3-phase AC loads
- Maximum energy utilisation through simultaneous operation of consumers and battery charging

Device	Type	Notes
Fronius Inverter	Fronius Primo und Symo* GEN24 Plus	The backup power frequency can be set on the inverter user interface in the range between 45 and 55 Hertz.
	Fronius Verto Plus	
Switching components	Option 1: Fronius Backup Switch – 1P/3P-63A – 1PN/3PN-63A	Manual switching solution Maximum current carrying capacity: 63A Space-saving installation in switch cabinet possible
	Option 2: Fronius Backup Controller – 3P-35A – 3PN-35A	Automatic switching solution Maximum current carrying capacity: 35A Space-saving installation in switch cabinet possible Suitable for GEN24 and Verto Plus up to max. 20 kW
Energy meter	Fronius Smart Meter 63A-1, 63A-3, 50kA-3	For the Fronius Smart Meter 50kA-3, current transformers with an output current of 5 A must be used
	Fronius Smart Meter TS 100A-1, TS 65A-3, TS 5kA-3	For the Fronius Smart Meter TS 5kA-3, current transformers with a TS 100A-1, TS 65A-3, TS 5kA-3 output current of 5 A Must be used
	Fronius Smart Meter IP	For the Smart Meter IP, current transformers with an output voltage of 333 mV must be used
Battery storage	Fronius Reserva	A battery storage unit is required for Full Backup operation.
	Compatible third-party devices: BYD Battery-Box Premium HVS/ HVM & LG FLEX **	

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

Full backup services:

	Primo GEN24 Plus		Symo GEN24 Plus		Verto Plus	
Performance class	3.0 – 6.0	8.0 – 10.0	6.0 – 10.0	12.0 SC	15.0 - 20.0	25.0 - 33.3
Power [VA] - Overload 5 sec.	6200	11024	12400	12765	30000	50000
Phase power [VA] - Continuous	–	–	3680	4133	7300*	11100
Phase power [VA] - 5 sec.	–	–	4133	4255	10000*	16675

* Observe the permissible unbalanced load limits.

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 or Verto 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.

Fronius International GmbH
Froniusplatz 1
4600 Wels
Austria
pv-sales@fronius.com
www.fronius.com

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