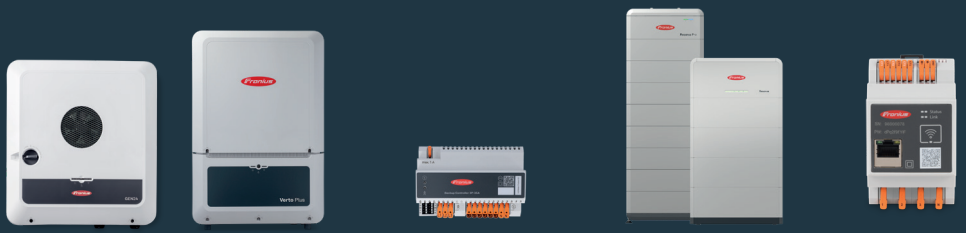
Fronius
Backup power solution

With Fronius GEN24 (SC) & GEN24 Plus (SC) or Verto Plus[1], Backup Controller[2], compatible batteries[3] and Fronius Smart Meter[4].



1 2 3 4

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 (SC) & GEN24 Plus (SC)

- 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





Fronius Backup Controller

- Automatic solution for maximum security
- Supply of the entire household even when absent
- Independent return to normal operation
- Simple and space-saving installation in the switch cabinet



Fronius Reserva & Reserva Pro

- Backup power & black start capable
- Safe and durable with LFP cells
- High charging and discharging capacities
- Maximum system efficiency through DC coupling
- Modularly expandable for a wide range of applications





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 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 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 Controller eliminates the need for external switching boxes. Our automatic switching components are installed in the control cabinet to save cables and space.

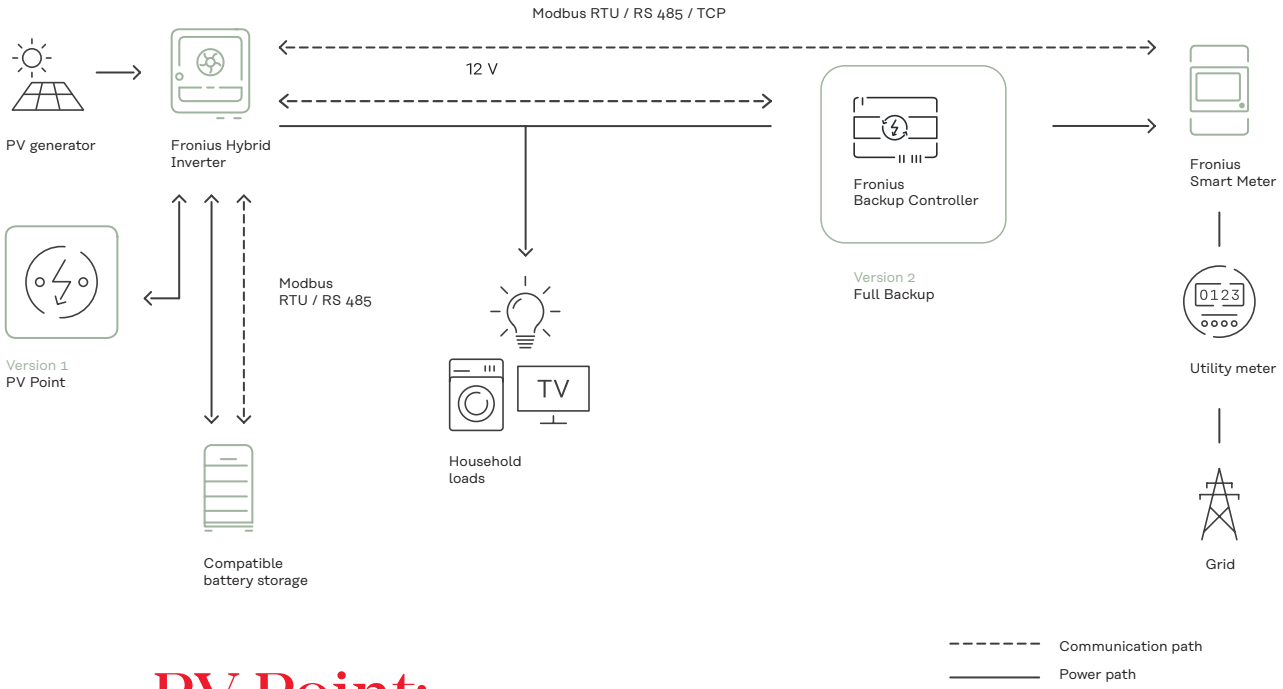
05 Supply of the entire household*

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 (SC) 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 (SC)	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 (SC)	
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 IP 5kA-3	For the Smart Meter IP 5kA-3, current transformers with an output voltage of 333 mV must be used
optional Battery storage**	Fronius Reserva Fronius Reserva Pro	Compatible types of the Fronius Reserva: 6.3 / 9.5 / 12.6 / 15.8 Types compatible with Fronius Reserva Pro: 12.0 / 16.0 / 20.0 / 24.0 / 28.0 / 32.0 Compatibility of the individual storage types differ for Fronius Primo and Symo GEN24 Plus (SC) and Fronius Verto Plus!
	Compatible third-party storage: BYD Battery-Box Premium HVS/ HVM, HVS+/HVM+ & HVB	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 Compatible types of the BYD Battery-Box HVB – only with Verto Plus: 11.8 / 14.8 / 17.8 / 20.7 / 23.7 / 26.7 / 29.6

**The socket is not included in the scope of delivery.*
*** The compatibilities of the individual storage types with Fronius Primo and Symo GEN24 Plus (SC) and Verto Plus differ.*

Full Backup:

- Complete supply of the entire household with full AC output power
- Maximum supply through automatic switching
- Space-saving installation directly in the switch cabinet
- Fronius Symo GEN24 6.0 - 12.0 Plus (SC) 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 (SC)	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	Fronius Backup Controller – 3P-35A	Automatic switching solution Maximum current carrying capacity: 35A Space-saving installation in switch cabinet possible Suitable for GEN24 Plus (SC) 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 IP 5kA-3	For the Smart Meter IP 5kA-3, current transformers with an output voltage of 333 mV must be used
Battery storage	Fronius Reserva Fronius Reserva Pro	A battery storage unit is required for Full Backup operation. Compatible types of the Fronius Reserva: 6.3 / 9.5 / 12.6 / 15.8 Types compatible with Fronius Reserva Pro: 12.0 / 16.0 / 20.0 / 24.0 / 28.0 / 32.0 Compatibility of the individual storage types differ for Fronius Primo and Symo GEN24 Plus (SC) and Fronius Verto Plus!
	Compatible third-party storage: BYD Battery-Box Premium HVS/ HVM, HVS+/HVM+ & HVB	

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

Full backup services:	Primo GEN24 Plus (SC)		Symo GEN24 Plus		Verto Plus	
Performance class	3.0 – 6.0	8.0 – 10.0	6.0 – 10.0	6.0 - 12.0 SC	15.0 - 20.0	25.0 - 33.3
Power [VA] - Overload 5 sec.**	8268	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.
** You can find the specific values for all performance classes in the corresponding user manual.

Monitoring & Digital Tools.

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

From the planning to commissioning phase and from monitoring to service – we support you as an installer with your work so you can provide your customers with the best possible advice and support at all times. And we make sure our support is exceptionally user-friendly, detailed and reliable:

Planning

If you are planning a new project, **Fronius Solar.creator** is your tool of choice. With this **free online configuration tool,** you can plan completely independently of location, design the PV system in just a few steps, and use it as a **consultation tool** with your customer. If an existing system needs to be extended with battery storage or the like, the effects can be simulated in advance with **Fronius Solar.web.**

Commissioning

Fronius Solar.start makes system installation more efficient than ever. The app guides you through the setup of Fronius devices in **3 steps** and turns **commissioning,** including configuration, into a simple process that takes only a few minutes.

Monitoring

Once the PV system is successfully in operation, the energy utilization begins – but so does the **system optimization via monitoring.** With **Fronius Solar.web,** we provide you with the best tool for doing this. It allows you to keep a reliable overview of all the PV systems you manage, so you can effectively increase their performance based on data.

Service

Fronius Solar.SOS supports you in **diagnosing and rectifying faults** and in ordering the correct replacement components. And it does this around the clock, regardless of the standard service times, and in the local language.

Any questions?

Here you will find our how-to videos

You can access recordings of our webinars here.

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