

Fronius UP.storage: Upgrade Fronius GEN24 to Fronius GEN24 Plus

Application Guide

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Introduction

This paper describes the upgrade process of a GEN24 inverter to a GEN24 Plus. The GEN24 Plus is an allin-one hybrid inverter that has all functions integrated, including the ability to run a battery and a full backup power solution. For customers who do not yet require a battery or full backup power solution during initial installation, Fronius offers a future-proof version of the GEN24 without hybrid functions. With this version, the aforementioned hybrid functions can be retrofitted at any time without having to replace the inverter. The Fronius UP online upgrade program offers the option of unlocking certain functions at any time. Currently, the "UP.storage" upgrade is available to upgrade the GEN24 to the GEN24 Plus. This paper describes the advantages of the online upgrade program and the upgrade process itself.

Distinction GEN24 and GEN24 Plus

Functions	Primo and Symo GEN24	Primo and Symo GEN24 Plus
Battery connection including MultiFlow technology	-	√
Basic backup power PV Point	~	4
Full Backup power	-	√*
Open interfaces (Modbus, Solar API, etc.)	~	✓
Digital energy management I/Os	✓	4
Active Cooling Technology	✓	✓
Shading management Dynamic Peak Manager	✓	✓
Possibility of connection to Solar.web	✓	✓

This table shows the differences between GEN24 and GEN24 Plus inverters:

*The Full Backup power option is available both for the Primo GEN24 3.0 - 10.0 Plus and the Symo GEN24 6.0 - 12.0 Plus.

Compatible inverters for UP.storage

The following Fronius GEN24 inverters can be upgraded to GEN24 Plus using UP.storage:

- Fronius Symo GEN24 3.0 5.0*
- Fronius Symo GEN24 6.0 10.0
- Fronius Symo GEN24 12.0 SC
- Fronius Primo GEN24 3.0 10.0

*On the Fronius Symo GEN24 3.0/4.0/5.0, only the battery function can be enabled. The option for a full backup power operation does not exist here.

Please note that the inverter firmware for UP.storage must always be up to date.

Advantages of Fronius UP.storage

No pressure to make a decision when investing:

With the GEN24 and Fronius UP.storage, the decision to invest in a battery does not have to be made at the outset when the PV system is installed. The customer can start with a basic configuration and choose to expand the system later if required, to include a battery storage system or a full backup power solution. This enables greater flexibility when planning and implementing an energy storage solution.

Flexibility and security for future changing requirements:

Since energy storage solutions and individual requirements can change over time, Fronius UP.storage offers the option of adapting and expanding the system. As a result, the system offers long-term security.

Sustainable inverter concept:

With the Fronius UP.storage upgrade, the existing inverter can still be used. This not only reduces the consumption of materials and resources, but also saves the costs of replacing the inverter. By extending the service life of the inverter, the sustainability of the entire energy system is improved.

In summary, Fronius UP.storage offers an investment opportunity without pressure to make a decision, flexibility and security for future requirements, and a more flexible investment. This makes the Fronius GEN24 and Fronius UP.storage an attractive option for those looking for a customized and adaptable energy storage solution.

Upgrade process from GEN24 to GEN24 Plus

This chapter describes the specific steps to be followed and the platforms required for the Fronius UP.storage upgrade process. The starting point for the upgrade is Fronius Solar.web and the purchase is completed in the Fronius Webshop. Fronius UP can only be purchased by installers or Fronius Partners. End customers do not have the option to do this themselves. **Fronius UP.storage can be purchased online in countries where the Fronius Webshop is available. Furthermore Fronius UP.storage is now also available in selected countries without a webshop. After registering the product, installers who have questions or are interested in the upgrade can contact Fronius by email with the inverter's serial number. A current country overview can be found in the download section on the Fronius website (***country availability Fronius UP***)¹. The upgrade can be performed both with and without an Internet connection.**

Below is a step-by-step guide of the upgrade process (purchase via Webshop):

1. Log in with your Solar.web account.



We believe in a future in which we use renewable energy sources to cover 100% of our global energy requirements.

¹<u>https://downloads.fronius.com/Solar%20Energy/User%20Information/SE_UI_Availability_Fronius_Web_shop.pdf</u>

Login	Don't have an account ye		
Email	Register now		
Password (
Password forgotten			
By signing in, you agree to our <u>Privacy Policy</u> .			
□ Remember me on this device			
Login			

2. Click on "Product registration".

	Fronius	SOLAR.WEB			Product registration 😨 📮	9+
	PV SYSTEI	M OVERVIEW PV SYSTE	EM COMPARISON MESSAGE CENTER			
	*	POWER)) (翻) PV SYSTEMS	(?) TOTAL PRODUCTION	I TOTAL EARNING	()
13,555.3 5951/33-1 kW Online				GWh	EUR	

3. Click on "Register product".

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 I. Register your Product Order your free warranty extension After registration, our attractive warranty incentives are available to you. Simply select and benefit from free warranty models! * S. Prolong your warranty extension (optional) * Warranty conditions and incentives may vary by country and region (see warranty conditions). 	← ALL ► NON-REGISTERED PRODUCTS ► REGISTERED PROD	UCTS	Search term Q X
	 I. Register your Product Order your free warranty extension After registration, our attractive warranty incentives are available to you. Simply select and benefit from free warranty models! * I. Prolong your warranty extension (optional) * Warranty conditions and incentives may vary by country and region (see warranty conditions). 	If you cannot see the registration or received guest rights for your PV standard Please refer to our FAQ section.	f your inverter, you may have only ystem.

4. Fill in all mandatory fields and click on "Register". You will find the serial number and the

V.Code on the inverter's name plate.

1. Register your Product If you cannot see the registration of your inverter, you may have only								
2. Order your free warranty extension After registration, our attractive warranty incentives are available to you. Simply select and benefit from free warranty models! *			received guest rights for your PV system. Please refer to our FAQ section.					
3. Prolong your warrar	nty extension (optional)							
* Warranty conditions and incer conditions).	* Warranty conditions and incentives may vary by country and region (see warranty conditions).							
MORE INFORMATION								
✓ Devices not assigned	to a Fronius Solar.web system	(1)		Registration incomplete (1/1)				
				×				
Only inverters can b	e registered. System extensions lil	ke Ohmpilot, Smart Meter, Wattp	lot, or Sensors cannot be regist e	ered.				
	Serial number			REGISTER				
	V.Code		(i)	APPLY FOR ANOTHER				
	Installation date			REGISTER ALL				
	Installation country	Constraints of the second	~					
	Installer	N. 888.78.88	APP 100.011					
	Additional info	optional						

5. Click on "Choose upgrade" for the respective inverter.

Fronius Product re	egistration		Product registration 😨 🎝 🚽
	Symo GEN24 10.0		
	Serial number		
•	Installer	transfer of the	
Symo GEN24 10.0	Warranty	Two-sheady Net Tot-1985	
-,	Product registration by	register - oppositer.	
	Additional info		
	Feature upgrade	Nothing selected	CHOOSE UPGRADE

Please note that the inverter firmware for UP.storage must always be up to date.

6. You will now be redirected to the Fronius Webshop.

Fronius	SOLAR.WEB	Product registration 😨	99+ T
÷			
	0	You are being redirected to the FRONIUS International GmbH webshop	

7. Now add the upgrade to the shopping cart.

Innovative solar solutions since 1992	🖉 Buy individual products 2	4/7	Flexible payment methods	
Franius			⊕ EN ~ 漸 8 戸	
	P Fronius Warranty Solarwab Pramium	ÚP Fronius UP		

Quick and easy: Upgrade existing Fronius GEN24 inverters online without the need of replacing the hardware



Fronius UP

UP UP.storage Battery Operation and Full Backup

With Fronius UP.storage, you can add two new features to the Fronius GEN24:

Battery Operation:

Fronius UP.storage turns the Fronius GEN24 into a hybrid inverter and enables connection to one of the compatible storage systems.

Full Backup: ①

Fronius UP.storage provides your customers with another emergency power option in addition to PV Point: Full Backup allows your customers to supply their entire household with backup power when necessary.

Make sure that the latest software version is installed on the Fronius GEN24 inverter so that Fronius UP.storage can work properly.

Q Search			
Symo GEN24 10	0.0		_
	Sorial numbor : Installation Country : Installor: Additional Information :	ÛP UPstorage	Excl. VAT

8. The upgrade has been added successfully to the shopping cart. Now switch to the shopping

cart.

	♡ Innovative solar solutions since 1992	Buy individual products 24/7	3 Flexible payment methods
Fronius			
		주 년 টি Fronius Warranty Solar.web Premium Fronius UP	
	Quick and easy: Up	grade existing Fronius GEN24 inverters online without the need of re	eplacing the hardw Outproved for serial number added to the shopping cart.
		0	

9. Click on "Proceed to Checkout".

	\heartsuit Innovative solar solutions since 1992	졒 Buy	r individual products 24	4/7	D Flexible payment methods	
Fronius						⊕en∨ # 2 ₽1
		P Fronius Warranty	Solar.web Premium	ÚP Fronius UP		
Shopp	oing Cart					
Item		Price	Qty	Subtotal net	Apply Discount Code	
	UP.storage	1000	1	1.000	Enter discount code	Apply Discount
	Serial number :			m	Summary	
	Installation country :			Ш	Subtotal net	1000
Clear Shopping Cart					VAT (20%)	1000
					Order Total	480078
					Your savings	111.0
					Proceed to Chec	kout

10. Select the desired payment method and accept the General Terms and Conditions (GTC).

Then click "Buy now".

♡ Innovative solar solutions since 1992 🖙		纽 Buy individual pr	oducts 24/7	Flexible payment methods		
Franius						
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Dining Address			Order S	Summary		
			Subtotal	net	12012	
THE REAL PROPERTY AND			VAT (20%	6)		
1281			Order 1	īotal	000078	
and charged and						
Payment Method			Items in	n Cart	^	
PovPal / Cradit Card / Klarpa / Coagle Pov / A	pplo Pov			LIPstorage		
	ppie Fay					
Card Card	Expiration date	Security code		Serial number:		
1234 1234 1234 1234 🚺 VISA 🧱	MM / YY	CVC ®		Installation Country:		
🔿 🔣 Klarna						
🔿 🦻 PayPal						
○ (GPay) Google Pay						
By clicking on 'Buy now' you accept our <u>Gen</u>	eral Terms and Conc	litions (GTC). The				
 cancellation policy and the sample cancellati detailed information on data processing in o 	ion form can be four ur <u>privacy policy</u> .	nd in the GTC, more				
K Back to shopping cart Buy now						

<u>Note</u>: Payment methods may vary depending on the customer or country.

11. Wait until you see the following information, only then is your order complete. Switch back to Solar.web.

	\heartsuit Innovative solar solutions since 1992	Buy individual products 24/7	Flexible payment methods
Fronius			⊕en∨ 🕍 S 📮
		င်္ခြာ ကို ကြာ Fronius Warranty Solar.web Premium Fronius UP	

Thank you for your purchase!

We have received your order **and the second se**

Order information:

Orders are processed immediately. If you have ordered goods that are being delivered digitally, you will receive them as soon as our order has been successfully submitted. Products that are being shipped are processed on the next working day. As soon as your order has been processed, the invoice will be sent to your specified e-mail address. If you buy an upgrade for your Fronius inverter on a working day, it'll be available on your device within one hour. If you buy an upgrade for your Fronius inverter during the weekend, it'll be available on your device on the next working day. In order to make the upgrade automatically available on your Fronius inverter after purchasing, the device needs to have an internet connection.

Right of widthdrawl/right of termination:

You can find details on your right of withdrawal/right of termination on our General Terms and Conditions.

If you have any further questions, please see our FAQs. If you can't find the answer you're looking for there, please contact support@fronius.com.



12. If the GEN24 is connected to the Internet, the upgrade will be installed automatically.

Franius Product re	egistration			Product registration	-
	Symo GEN24 10.0				
	Serial number	10000			
•	Installer	10.000			
Symo GEN24 10 0	Warranty	International Rest Processor			
SJIIS SELET 10.5	Product registration by	- Compression of the second second			
	Additional info				
	Feature upgrade	UPstorage Installed	Download license		

<u>Note</u>: The correct status should be displayed in Solar.web within a few minutes.

13. If the GEN24 does not show an Internet connection, either establish a connection or perform the upgrade manually by downloading the license locally. Note that Fronius recommends performing the upgrade process when the inverter is connected to the Internet, as it is much easier and more time-efficient than without an Internet connection.

Fronius Product re	egistration		Product registration	
	Symo GEN24 10.0			
	Serial number	100000		
•	Installer	100000000000000000000000000000000000000		
Symo GEN24.10.0	Warranty	Nextle Service Proc. (2010)		
Symo GEN24 10.0	Product registration by	011001000		
	Additional info			
	Feature upgrade	UP.storage Download license		

14. Then connect to the user interface of the inverter* and log in via the Technician Account. Click "System" - "License Manager" in the menu and upload the license file here.

* The following videos explain how to establish the connection to the user interface of the inverter:

https://youtu.be/T25omrhcroU
https://voutu.be/P9smxpxu9WA

Fronius			Technician	
← System	License Manager			
General		7		
Update	Drag & drop license fi	le here		
Startup Wizard	OF Chases lisense file			
Factory Reset	Choose license lile			
Event Log	Valid license installed	Download acknowledgement		
Information	If you need confirmation for the return pro-			
License Manager	If necessary, you can forward it to your Froni- us Technical Support.			
Support				
	Serial number: License: available			

15. Once the upgrade process is complete, the battery can be installed at any time. There is also the option to activate the Full Backup power supply of the GEN24 Plus. Please note that additional external components are required for the mains switchover. More detailed information on this process can be found in the operating instructions.