

Changelog GEN24 208-240

Fronius International

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Version: 1.35.7-1



Table of contents

1 English	2
1.1 Fronius Primo GEN24 3.0 - 6.0 208-240 / Primo GEN24 8.0 - 10.0 208-240	2
1.1.1 Bundle 1.35.7-1	2
1.1.2 Bundle 1.33.7-1	4
1.1.3 Bundle 1.30.4-1	6

1 English

1.1 Fronius Primo GEN24 3.0 - 6.0 208-240 / Primo GEN24 8.0 - 10.0 208-240

1.1.1 Bundle 1.35.7-1

Component	Version
Core	1.29.1-10
Control	1.0.1-1
WebUI	1.29.1-7
Kronos	3.3.4-28269
Zeus	3.2.2-20168
Rhea	2.15.1-1

New features

- / Open source libraries: provide licenses and copyright contributors via WEBUI
- / Implemented inverter-data export on inverter WEB UI.
- / Measure against RCD false triggers - Implementation of a variable value for residual current threshold
- / Integration of Export Limitation Settings into the PDF File.
- / Control of Multi-Inverter Systems.
- / Access to the devices web interface will now be temporarily blocked (300 seconds) after 5 failed login attempts.
- / Switched Internal Webserver from Lighttpd to Nginx.
- / Designation changes in the battery configuration on the WEBUI incl. higher-level activation option
 - / Change "allow battery charging from other generators in the home network" to "Battery charging from other generators in the home network and from public grid"
 - / Change "Allow battery charging from public grid" to "Battery charging from other generators in the home network"
- / Changed Permission Level to Customer for Modbus Page in WebUI.
- / Implemented possibility to deny Remote-Config in WebUI.
- / Updated Modbus interface Map. The Primo GEN24 208-240 now has the same interface Map as the Primo GEN24 PLUS 208-240. To find this Map please visit our Homepages download center and search for "Modbus".

Bugfixes

- / Added Translation for Rate Change of Frequency Settings (ROCOF).
- / System Deadlock Prevention - Minimum SoC text in infobox was calculated/displayed incorrectly
- / Improved UI behavior during update process.
- / Behaviour of internal energy management fail safe mode was changed - In the event of Modbus transmission errors, the failsafe mode is not triggered immediately.
- / Setup values in grid-support functions page on the Inverter WebUI can be saved
- / Fixed false triggering of state 1071 after software update
- / Exchange wizard results into "wrong V-Code" error message if not logged in as customer
- / State 1197 false trippings fixed.
- / Enhanced the Residual Current Monitoring system to guarantee accurate and reliable performance.

Setup changes

- / Hawaii: Change of minimum Reconnect Limit values.
- / Adapted settings for Grid voltage dependent power reduction Stop Voltage Overvoltage.
- / Changed time constants in all grid support functions.
- / Canada, US, Puerto Rico: Reworked Settings for GVDPR Enable Limit Overvoltage, Inner Limit Min and Voltage Reconnect Limit.
- / Canada, US, Puerto Rico: Adapted Settings for Frequency Reconnect Inner limit Min. and Frequency Reconnect Inner limit Max.
- / Canada, US, Puerto Rico: Improved Settings for Voltage Reconnect Inner limit and Voltage Reconnect Outer limit.
- / Canada, Puerto Rico: Changed Time Constants for Reactive Power Mode Functions.
- / Canada, US, Puerto Rico: Adapted Settings for Reactive Power Mode Q(P).

1.1.2 Bundle 1.33.7-1

Component	Version
Core	1.27.1-7
Control	1.0.1-1
WebUI	1.27.1-1
Kronos	03.01.05-build-26230
Zeus	03.00.05-build-19063
Rhea	02.15.01

New features

- / Asymmetric feed-in with grid feed-in limitation per phase.
- / System power control - dynamic feed-in limitation with multiple inverters.
- / Future devices will feature unique access point passwords, enhancing network security.
- / Adjustable Backup Mode Frequency, now offers frequency adjustment options in backup mode for better system adaptability.
- / Achieved quicker transition times to Essential Load backup-mode, ensuring minimal disruption and improved reliability.
- / Improved visualization of WIFI signal strength.
- / Numbering of load management rules added.
- / Upgraded IEEE 1547 compliant SunSpec Modbus 7xx models for improved performance.
- / Additional mode for Ramp-up at Startup and Reconnection: On at Reconnection after an AC mains fault.
- / System Deadlock prevention in back-up mode - System preservation during night
 - / Depending on the battery and inverter type, a reserve capacity is now always retained when the function is activated. The inverter will be supplied for at least 16 hours in emergency power mode. Further information can be found in the operating instructions.
- / Now its possible to get access to all SoC settings with customer login in the battery management menu
- / Detection and indication of a wrong battery size during commissioning process of the inverter. Event 1148 occurs if the size of the connected battery does not match the hardware limits of the corresponding inverter. This is a warning event and does not affect the inverter function.
- / Adapt Enable/Disable Behavior for Modbus 700 Models

Bugfixes

- / Enhanced update capability, Updates can now be performed seamlessly across all devices.
- / Improved behavior following over-frequency steps during power limitation.
- / Enhanced internal frequency dependent power control threshold settings for better stability and control.
- / Reconnect Limits are now updated seamlessly.
- / Problems with Loadmanagement activation are solved.
- / Improved parameter changes via WebUI.
- / Inverter was sometimes stuck in standby after deactivating modbus client mode.
- / Initial register values have been reworked for enhanced accuracy.
- / Missing parameter for reactive power control was fixed (Point 6).
- / Problems with Loadmanagement deactivation are solved.
- / Set power reduction was ignored if smart meter connection was lost. Produced power should be limited to the set value.
- / Inverter feed-in during software update download is now safeguarded.
- / Fixed problem with Inverter reconnection to grid, even if grid frequency is outside the reconnect limits in case reconnect time was set to 0s.

- / Quicker disconnection when combining Softlimit, Hardlimit, and Failsafe measures.
- / Incorrect triggering of State 1125 (power low in backup power) has been fixed.
- / Technician reset now reverts settings to default for easier troubleshooting.
- / Fixed solar API PV power in the GetInverterInfo.cgi request.
- / Amount of decimal digits reduced for DNO rules.
- / Correction for Solar.web logging using a smart meter - in some cases, negative power values were displayed.
- / Modbus TCP Meter Configuration, addressing improvements ensure distinct device identification.
- / Incorrect activation of the PV Point in the event of an AC overvoltage.
- / Dynamic peak manager mode "ON (MLSD systems)" lead to continuous loop during power check.
- / The Modbus interface 0 had to be configured to master, if a smart meter was to be added.
- / Configured values for dynamic power reduction were sometimes ignored.

Setup changes

- / HI Setups: Corrected Reactive Power settings incl. Time constants.
- / Adjusted grid frequency dependent power control time constants and delay time.
- / Adapted Softstart gradient.
- / Voltage-dependent power control adaptations.
- / Updated minimum values for grid voltage reconnect limit.
- / Adjusted AFCI parameters.
- / Updated the Power Reference Mode to P_nominal for Voltage dependent power control.

1.1.3 Bundle 1.30.4-1

Component	Version
CoyoteControl	1.0.1-1
CoyoteCore	1.24.1-7
Zeus	2.28.5-16240
Rhea	2.15.1-1
Kronos	2.36.6-23207

New features

- / Added compatibility with new hardware models to extend the products usability and flexibility.
- / Removed automatic signal recording for Arc Fault Circuit Interruption to enhance system performance.
- / Enabled automatic data upload following residual current events for improved incident tracking.
- / Introduced device-dependent configuration options allowing for tailored system setups.
- / Refactored energy management system for optimized performance and efficiency.
- / Implemented system power control features to manage energy distribution effectively.
- / Integrated IEEE 1547 Modbus local persistence for reliable data storage.
- / Established IEEE 1547 SunSpec Modbus communication for standardized data exchange.
- / Configured module level shutdown via the user interface of the inverter for enhanced safety and control.
- / Synchronized update status across systems to maintain consistency.
- / Implemented Arc Fault Circuit Interrupter operation for Fronius Primo GEN24 3.0-6.0 208-240 models.
- / Extended Arc Fault Circuit Interrupter operation to Fronius Primo GEN24 8.0-10.0 208-240 models.

Bugfixes

- / Restored the functionality for logging low-temperature states.
- / Communication LED did not always show correct state when WPS was activated.
- / Renewed the WPA supplicant to ensure secure wireless connections.
- / Improved the wording on the user interface of the inverter for clearer communication.
- / Adapted trip times for certain asymmetric over- and undervoltage events to protect against system instability.
- / Enhanced the startup procedure to reduce initialization time and improve reliability.
- / Modified error codes for module and ambient temperature events for accurate troubleshooting.
- / Improved the operation of the 24-hour isolation measurement for better safety compliance.
- / Modernized the main menu on the user interface of the inverter for an improved user interface.
- / Changed the DHCP operation to ensure stable connectivity after WLAN reconnection.
- / Reevaluated and updated the values of reactive power displayed on the user interface of the inverter.
- / Advanced the automatic WLAN reconnection mechanism for seamless network connectivity.
- / Modernized overall operation in the network for enhanced performance and compatibility.
- / Improved communication with Fronius Solar.web for efficient data exchange and monitoring.
- / Renewed the data logging mechanism to ensure comprehensive system monitoring.
- / Altered the linking between the user interface of the inverter and Fronius Solar.web for streamlined user experience.
- / Advanced error logging for detailed system diagnostics and troubleshooting.
- / Enhanced operation via WLAN for reliable wireless control and configuration.
- / Modernized the update process for efficient and secure software upgrades.
- / Adapted parameters for IEEE1547.1 compliance to meet industry standards.
- / Corrected incorrect state code trippings for improved system accuracy.

- / Improved Arc Fault Detection to enhance safety and prevent potential hazards.
- / Renewed the rollback behavior to ensure system stability in case of update failure.
- / Advanced grid code selection for optimal system performance across various grid standards.
- / Adapted the update process for outdated software to ensure system security and compatibility.
- / Improved the functionality of export limitation for effective energy distribution.
- / Changed the functionality of load management for optimized power usage.
- / Improved the overall rollback function for enhanced system recovery capabilities.
- / Renewed network reconnection after updates to ensure continuous operation.
- / Revitalized the user interface of the inverter for an enhanced user experience.
- / Renewed Powerline communication configuration on the user interface of the inverter for improved data transmission.
- / Restored rollback functionality to working order to safeguard against update failures.
- / Renewed grid type visibility within the setup configuration for better system customization.
- / Changed PV Point operation for optimized solar energy management.
- / Improved export limitation control for secondary devices operating in the system.
- / Adapted the functionality of active power prioritization according to voltage and frequency.
- / Improved update migration to ensure seamless software transitions.
- / Modernized residual current measurement for enhanced safety monitoring.
- / Adapted the PV configuration on the user interface of the inverter for improved PV module management.
- / Renewed power limit settings for more precise control over energy consumption.
- / Changed the user interface of the inverter update visualization for better update tracking.
- / Added a grid configuration button for easy access to grid settings.
- / Adapted the password check on the user interface of the inverter for enhanced security.
- / Corrected the alignment of the confirmation button in the user menu for improved usability.
- / Improved ramp rate communication after I/O power limitation for better system responsiveness.
- / Enhanced the detection of significant frequency jumps/deviations for system stability.
- / Updated terms and conditions to reflect the current operational and legal framework.
- / Made firmware changes to the Arc Fault Circuit Interrupter for improved functionality.

Setup changes

- / Improved "grid frequency-dependent power reduction intentional delay time" for enhanced power management.
- / Changed RPM AC voltage filter time constant for optimized signal processing.
- / Adapted power reference mode for overvoltage to protect against voltage spikes.
- / Set Arc Fault Circuit Interrupter parameter to unlimited reconnects in all available setups for enhanced reliability.
- / Adapted parameter for underfrequency when starting the inverter to ensure smooth operation.
- / Adapted active power operation depending on the frequency P(f) for optimized performance.
 - / United States (US17, US18, US19, US20)
- / Adapted parameter trip times in all available setups for improved safety and compliance.
 - / Canada (CAN1- 2)
 - / United States (US15-27)
- / Extended grid monitoring time for improved system overview and stability.
- / Added setups.
 - / US FTS 60HZ, US-FTS
 - / MX220; MX220N, MX240, MX240N

/ HI1-240, HI2-208N, HI4-208, HI5-240
/ CAL1-240N, CAL2-208N, CAL4-208; CAL5-240
/ CAN1-8, CAN 240N
/ US220, US220N
/ US1-28

/ Adapted available IEEE1547:2018 setups.