Changelog GEN24 208-240

Fronius International

June 17, 2024

Version: 1.30.4-1

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

1.1.1 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.
/ Renewed parameter for minimum voltage limit for enhanced system protection.
  / 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.