



GE VERNOVA

SEMIPOL™ D4.2 CONTROLLER UPGRADE

Advanced technology injected into existing asset

Many reasons to upgrade now

SEMIPOL D4.0/D4.1 has been upgraded and improved. GE Power Conversion can offer a cost-effective solution to extend the lifecycle of your drive and also improve its performance.

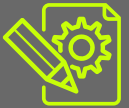
If you are currently relying on previous generation controls of the SEMIPOL, keeping your system up to date is critical. With the cost-effective and standardized controller upgrade for your SEMIPOL, you can not only extend your assets lifecycle, but also further increase its reliability.

This efficient upgrade will modernize your controls and data interfaces, adding redundancy to it, thereby substantially improving control capabilities and performance. Extensive diagnostics can enable easier maintenance and GE Power Conversion's service products can help you get the most value out of SEMIPOL.

Controller upgrade process

Order upgrade

Definition of project specific details and technical specifications



Engineering

Applying standardized solution for SEMIPOL D4.0/D4.1 generation with a tested interface between control components and existing power modules



Installation and commissioning

Replacement of previous generation controller components. Commissioning and one-to-one adaption of old system settings.



Increased timeline

Rely on increased performance and advanced service products



Secure grid compliance

New excitation control will help enable compliance with current grid regulations



It's time to upgrade - NOW!



Please contact our Sales Team:

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Benefits and features

We understand your industry and designed SEMIPOL's features to match your specific requirements.

- State of the art D4.2 technology with sophisticated tools (PECe based)
- Controller upgrade allows interfacing with all supplementary Power Conversion products (Visor Remote Monitoring, 24x7 Tech Support, Predictive Maintenance)
- Lifecycle extension of SEMIPOL
- Performance enhancement of SEMIPOL.
- No civil works required for controller upgrade
- Reduced maintenance and downtimes

Proven D4.2 technology for tomorrow

The Power Electronics Controller offers redundant daisy chained components with real time processing without buffering or storing, including:

- Rxi Controller: Industrial PCs ensuring use of up-to-date processor technology.
- PIBe: Power Interface Boards with redundant fiber optic connection and FPGA, limiting sporadic faults to a minimum.
- HMI: Powerful industrial PC with 15" touchscreen, offering high-resolution and high-contrast user-friendly diagnostic pages for quick and efficient troubleshooting.
- 2nd Channel SFC: Added 2nd Channel for reliable start-up even under faulty conditions.
- Tiny TAEs for SFC Thyristor firing: Improved Thyristor firing control through Tiny TAEs boards.
- Visor: Connectivity via VISOR BOX and immediately generated auto-notifications to the experts for faults and alarms (24x7)
- Fast De-Excitation Modules: Replacement of obsolete DC breaker

This smart upgrade will:

- Improve control capabilities and performance
- Improve reliability and service ability
- Extend life of critical control components

