

NWL Transformers, Inc.



Next Generation PowerPlus

We are proud to announce the release of Version 6 [PowerPlus](#), our next generation switchmode power supply. Version 6 incorporates a number of control and safety enhancements, building on the excellent performance and reliability of previous PowerPlus models. Highlights of the [Version 6](#) PowerPlus include:

- Latest TI DSP Controller
- Integrated [Anybus®](#) Module (optional)
- SD card for data storage/product enhancements
- New cabinet layout for easier component accessibility
- Limit switches on all doors without interlocks

A complete description of Version 6 improvements can be found [here](#).

GVC Voltage Controller Upgrade

In conjunction with the PowerPlus Version 6 release, we used the features of the DSP to develop a major upgrade to our GVC voltage control module. We significantly improved the manufacturing of this module; all components are surface mounted for greater reliability. This module also includes the Anybus option.

More information about this controller, its compatibility with other components, and retrofits, can be found [here](#).

Switchmode vs. 3 Phase T/R Power Supply

Switchmode power supplies have clearly supplanted linear T/R sets for precipitator energization. Most new precipitators use switchmode supplies as the standard. For existing precipitators, however, replacing a linear T/R set and controls with a switchmode supply presents logistic

NWL is proud to offer you:

- Transformer spare parts support
- Field service coverage within North America
- Transformer testing services
- Power supply and rapper control upgrades
- Installation support and start-up assistance
- Full range of service, from emergency repair to total refurbishment

and infrastructure challenges. Rather than incur this expense and effort, some companies have opted to simply upgrade their SCR controls in order to achieve results similar to a switchmode supply. The concept is sound - by producing higher frequency ($\approx 1\text{kHz}$) output, the ripple voltage will be much lower, thereby improving power factor and collection efficiency.

There are a number of other factors to consider with these competing technologies, and this [white paper](#) compares them over a wide range of operating parameters in order to provide a true analysis of these power supply alternatives.



NWL at the Reinhold Show

Helmut Herder and Joe Manna will participate in the Reinhold Environmental APC/PCUG Conference hosted by Duke Energy from 18-23 July in Concord, NC. They will be glad to discuss the recent product improvements mentioned above, or anything else of interest to you.

There are a few openings available for anyone still wanting to attend the conference. For a complete schedule of events and registration information, please visit the Reinhold [home page](#).

Schedule repairs, service or order parts today!

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For service: service@nwl.com

312 Rising Sun Rd.
Bordentown, NJ 08505

phone: 800-742-5695
fax: 609-298-1982

e-mail: sales.caps@nwl.com
www.nwl.com