

## ***Programmable DC Power Supplies Deliver Up To 50 kW In 8U***

[Magna-Power Electronics](#) has announced an upgrade to its popular rack-mount TS Series MagnaDC programmable dc power supply line, with 102 new models providing up to 25 kW in 4U (7.0" height) and 50 kW in 8U (14.0" height). The TS Series, with its rugged current-fed power processing topology combined with advanced microprocessor control, provides performance and functionality to address a variety of applications including aerospace test and measurement, automotive component testing, semiconductor fabrication and component test, industrial and renewable energy, as well as general laboratory research and development.

The upgraded TS Series features models at four power levels with greatly increased power density: 20 kW and 25 kW in 4U and 40 kW and 50 kW in 8U. With major innovations on internally fabricated bus work, the upgraded TS Series offers very high currents—up to 2000 Adc in 4U and 4000 Adc in 8U—as a single power supply. Consistent with the existing TS Series, models are offered up to 4000 Vdc floating.

All TS Series models come standard with monitoring and control from a variety of sources, including front panel, computer interface and an isolated analog-digital I/O connector. A Standard Commands for Programmable Instrumentation (SCPI) command set is supported, allowing easy ASCII text programming over a computer interface. In addition, an IVI driver is included for the Visual Studio programming environment along with a dedicated National Instruments LabVIEW and LabWindows driver. Additional computer interface options include LXI TCP/IP Ethernet (+LXI), IEEE-488 GPIB (+GPIB), USB and RS-485.

Standard protection features on the upgraded TS Series include a dedicated interlock input, programmable overvoltage trip and overcurrent trip settings, thermal protection, phase loss, fuse fault, and analog input programming line fault. In addition, when in standby or fault condition, a three-phase contactor provides a mechanical break between the power supply's power processing circuit and the ac mains, providing the user confidence of safe operating conditions.

The upgraded TS Series models are available with three-phase input, including 380/400 Vac, 415 Vac, 440 Vac, or 480 Vac. All units are rated for continuous full power operation at 50°C. For more information, see the TS series product [page](#).