

Intepro's High-Speed DC Load Solves Point-of-Load Converter Test Challenges

EL 2000 HS modules minimize inductance, resistance and noise in fast slew rate DC load testing; 40W unit features 50MHz measurement bandwidth, offers 40A/ μ s rise time, 20A sinking for sub-1V loads



[Intepro Systems](#) announces the EL 2000 HS (high-speed) electronic DC load as the latest addition to its growing family of power system automatic test equipment (ATE). The [EL 2000 HS Series](#) is a stand-alone 40W load module providing point-of-load (POL) connections and point-of-use (POU) for fast slew rate DC loading. Ever-higher switching speeds and lower operating voltages present unique challenges in testing POL/POU power conversion systems. In response, the EL 2000 HS load offers a smart on-board load head that minimizes inductance, resistive losses and noise, which pose serious problems with loads using

wires to connect the load to the device-under-test (DUT). In addition, the EL 2000 HS is designed for sub-1V testing to meet the demands of low-voltage devices.

The EL 2000 HS's standalone modular POU design, along with its smart on-board load head, allows for positioning the load to DUT without the need for customization. The standard load offers four programmable modes of operation: constant current, constant resistance, constant power and constant voltage. All have a 50MHz measurement bandwidth with a 150MS/s, 14-bit digitizer. Measurements include voltage, current, power, noise, settling time and overshoot/undershoot for both V and I. The standard 20V/20A/40W module can sink 20A with only 0.3V applied to the load head. In constant-current mode the module achieves 40A/ μ s rise time with a 20A load for high-speed pulse loading when conducting real load simulation of high-bandwidth devices. Ethernet control allows for easy operation by utilizing either Intepro's PowerStar software package or third-party software.

"The EL 2000 HS electronic load's smart on-board modular head design minimizes inductance that would otherwise interfere with accurate testing of high-speed load transitions," said Gerard Sheehan, Intepro's Chief Technical Officer. "By adding the benefits of high-speed control and sampling, Intepro's electronic loads are able to provide full functionality for your product testing needs."

Intepro Systems offers electronic loads as stand-alone units or as complete test systems. Maintenance contracts and onsite calibrations are also available for its test systems.

For more information about this product, please download the [ELR 2000 Series data sheet](#). For more information about this or any other Intepro product, visit the Intepro Systems website at: www.inteproATE.com or email sales@inteproate.com.