

Vitrek Launches Best-in-Class Programmable DC Load Product Series

The Vitrek DL Series offers industry-leading performance in 125W-500W applications; supports best-in-class transient loading capability (from 0.1 μ W resolution to 14.5kW pulses); features high-speed pulse loading up to 100 kHz; boasts up ten times better measurement accuracy



Poway, CA—December 12, 2019—[Vitrek](#), a leader in high-voltage test and measurement equipment, introduces the DL Series of digital, programmable DC loads, designed to support the testing requirements for the latest generation of off-line power supplies, dc-dc converters and LED drivers. The DL Series is also equipped to handle a wide range of battery testing requirements. The devices are offered in three power ratings (125W, 250W and 500W), each with input voltages of 0-150V or 0-500 VDC. Unlike comparable programmable DC loads, the DL Series is capable of supporting loading sequences utilizing constant voltage (CV), constant resistance (CR), constant current (CC) and constant power (CW) in any combination in single

or arbitrary sequences of up to 100 steps.

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The DL Series provides high-current transient loading capability twenty times higher than other units in this class while also being capable of generating μ A loads. Measurement accuracy is typically an order of magnitude better at lower loading levels and double that of competing devices at higher loads. The instruments allow for a current or power sweep of up to 500 steps in each direction to and from set values and a voltage dependent current loading mode for complex variable output supplies. Standard OCP/OPP/OTP/OVP features and battery test modes are among other loading modes also included.

The instruments feature a comprehensive self-test function, providing assurance that all loading and measurement circuitry is properly functioning. Multiple interfaces are included as standard to allow for fully automated use. Additional unique features of the DL Series include historical data logging capability, both graphical and numerical, and graphical X/Y plotting of V vs A or W using swept loading. The DL Series offers leading transient performance in timing - with pulsed loading up to 100kHz - and wave shape, with the unique ability to view the current and voltage waveforms directly on screen using the built-in internal scope.

“The DL Series of programmable DC loads line was designed to enable users to conduct real-world testing,” said Chad Clark, Vitrek’s VP Sales and Marketing. “These instruments feature a high-resolution, touchscreen display. The intuitive touchscreen operation – with built-in data history and scope mode– are popular features of the entire family of Vitrek instruments.”

About Vitrek

Since 1990, Vitrek has provided innovative global solutions for high voltage test and measurement including electrical safety compliance testers, multi-point high-voltage switching systems and graphical power analyzers. Vitrek’s recent acquisition of the XiTRON brand of high performance instruments expands the company’s portfolio

to include portable calibrators for thermocouple and millivolt DC calibration, ballast testers, LED illumination spectral analyzers, programmable DC electronic loads, phase-angle voltmeters and digital milliohmmeters. Vitrek also supplies precision high voltage measurement standards to national laboratories and calibration labs around the world. This unique combination of capabilities positions Vitrek as a leading provider of test solutions serving the photovoltaic, medical equipment, power conversion, electrical component and appliance industries.

