

Floating Hot Deck Power Supply Subsystems Feature Isolation Up to 15 kV



UltraVolt announced an enhanced series of floating-hot-deck power supplies. “EFL” Series modules featuring isolation up to 15 kV, along with analog and digital I/O to create a completely integrated floating-hot-deck subsystem. Floating hot decks operate multiple bias supplies, pulse generators, and control systems in E-beam, I-beam, and mass-spectrometer systems. While the company’s original floating-hot-deck power supply provides one analog up channel, the “EFL” Series provides a second analog up channel and improved input/output faraday shielding along with upgraded low-voltage (LV) output power and analog channels. The improved input/ output faraday shielding reduces power-stage coupling noise. The upgraded LV output power provides tightly regulated $\pm 15\text{V}$ DC at 50 mA and $+5.1\text{V}$ DC at 500 mA. The main output is now available at 12V 1A or 24V 1A/1.5A. The upgraded analog channels auto-zero and auto-correct for linearity errors and full-scale gain. This provides a control and monitor capability of 0V to 10V DC with a temperature coefficient of <10 ppm per degree-Celsius. These analog channels have an initial offset error of <1 mV and a full-scale gain error of <0.1 percent while keeping the linearity error to <0.1 percent.

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