KeyTek ECAT® Model E513

Plug-in module to produce voltage ramps for testing surge protection components such as gas tube arrestors; meets surge simulator requirements of UL 864

WAVEFORMS

Voltage Ramps	0.1kV/µs, 0.5kV/µs, 1.0kV/µs, 5.0kV/µs, 10kV/µs, 0.1kV/µs is linear to 2.5kV; all other ramps linear to 3.0kV

Note: Specified ramp rates are obtained with an open-circuit voltage setting of 3.0kV.

Voltage Durations	~65µs for 0.1kV/µs; ~40µs for 0.5kV/µs and 1kV/µs; ~5µs for 5kV/µs and 10kV/µs
Current Durations	~45µs at 0.1kV/µs; ~40µs at 0.5kV/µs and 1.0kV/µs; ~5µs at 5kV/µs and 10kV/µs
Open-Circuit Voltage	0-3000V; ±5% in 1 volt steps
Short-Circuit Current	50A, ±10% when the peak open-circuit voltage is set to 3.0kV
Minimum System Requirements	E100 series control center with blank plug-in module (if no other half-width module is ordered)
Options	E513-VI - adds voltage and current monitoring

NOTE: To obtain linear fronts, waves are quasi-square waves with 20-25% initial overshoots beyond peak open-circuit voltages, except for the 0.1kV/µs which is roughly triangular. Undershoots range from 5 to 25%