

P/N: STK394

Envelope: (cdq/cfq)	cdq	: Impedance parameter (K_0)	15.6 Ohm Amp ^{0.5}
Wall: (.5-1-2 mm)	0.5	: Explosion constant (K_e)	9.6E+04 Watt sec ^{0.5}
		: Maximum Average Power	6434 Watts
Bore: (mm)	8	: Maximum Peak Current (A)	2011 See note 1
Arc: (mm)	100	: Minimum Lamp Voltage (V)	873 See note 2
		: Maximum Lamp Voltage (V)	3056 See note 3
Gas type: (xe/kr)	Kr	: Minimum Trigger Voltage (kV)	18 See note 4
Pressure: (torr)	700	: Minimum Trigger Width (μ s)	0.80 See note 5
		: Recommended Simmer Current	500-1000 mA
		: Maximum Simmer Current	4000 mA

Note 1: Maximum lamp current for long life applications = 4000 Amps cm⁻²

Note 2: Minimum lamp voltage for reliable ignition using external trigger.

Note 3: Maximum lamp voltage for reliable operation without self flash.

Note 4: Typical external trigger voltage, series trigger voltage similar.

Note 5: Minimum trigger pulse width (μ s) at minimum trigger voltage.

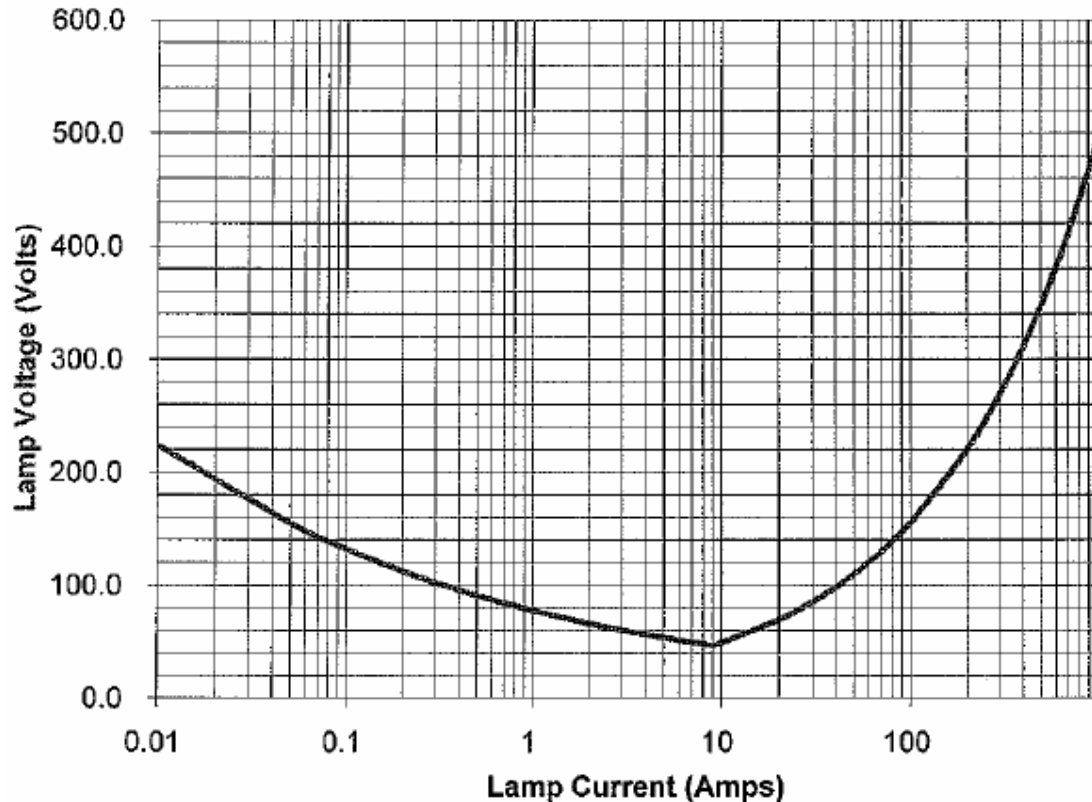
Note 6: Lamp and trigger voltages assume negative ground lamp supply.

Note 7: Minimum lamp voltage for reliable ignition will be lower with series trigger.

Note 8: For simmer operation minimum voltage is determined by lamp K_0 (see VI plot)

VI Plot for STK394

0.01 Amps to 1000 Amps



Assumes K_0 remains constant throughout positive slope of operation.

Note : this report is based on theory / approximations and should be used as a guide only