

Detailed Specifications of Laser Lamp

STXF889

6mm Bore, 100mm arc, 190mm overall length, fluid cooled Xenon Arc lamp

Envelope (CDQ/CFQ):	CDQ	Impedance parameter (Ko) :	21.3 Ohm Amp ^{0.5}
Wall (0.5-1-2 mm) :	1	Explosion constant (Ke) :	1.4E+05 Watt sec ^{0.5}
Bore (mm) :	6	Maximum Average Power:	3016 Watts
Arc (mm) :	100	Maximum Peak Current (A) :	1131 (See note 1)
Gas type (Xe/Kr) :	Xe	Minimum Lamp Voltage (V) :	700 (See note 2)
Pressure (torr) :	450	Maximum Lamp Voltage (V) :	2450 (See note 3)
		Minimum Trigger Voltage (kV) :	16 (See note 4)
		Minimum Trigger Width (μs) :	0.80 (See note 5)

CDQ: UV absorbing Cerium Doped Quartz

CFQ: clear fused quartz

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.

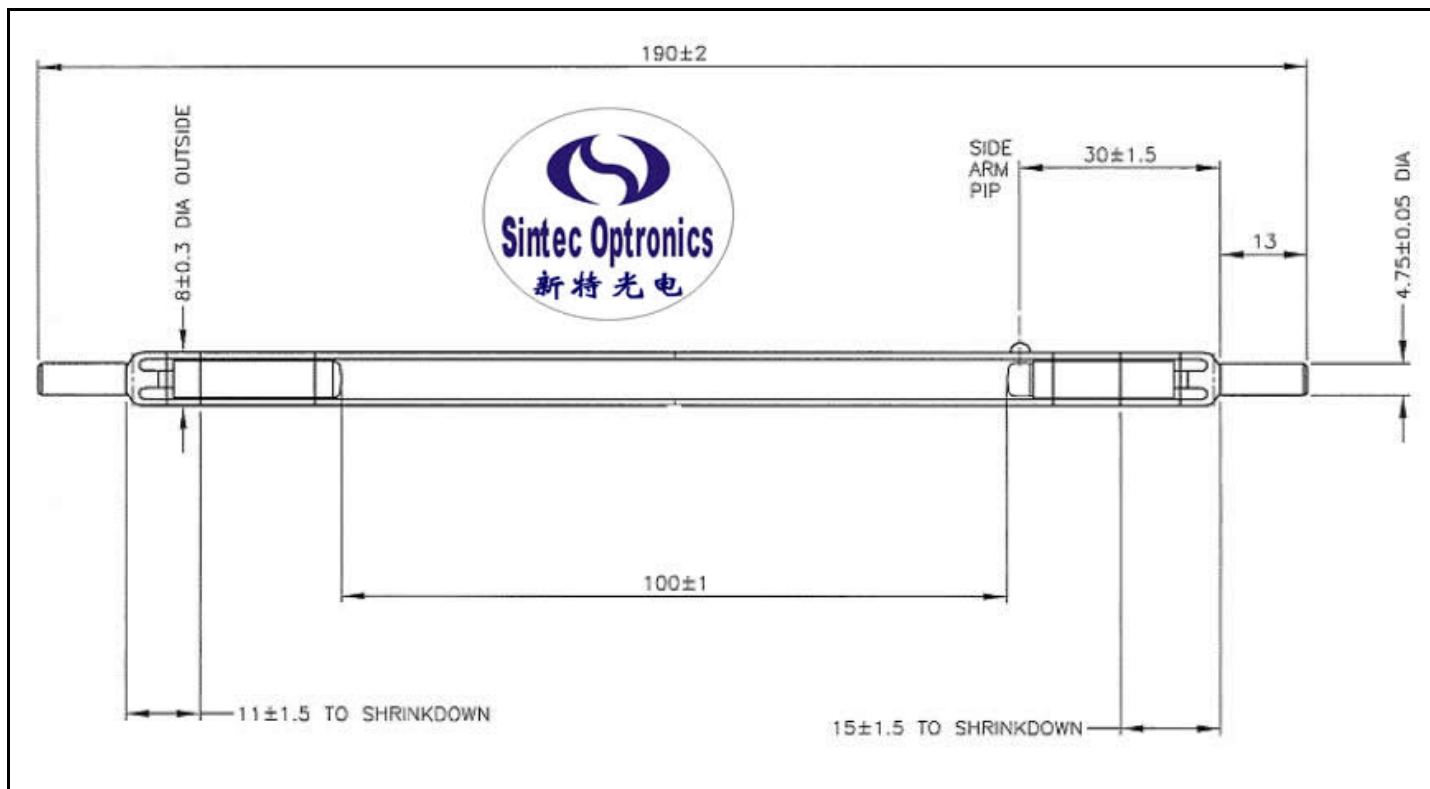
Note 4: Typical external trigger voltage, series trigger voltage similar.

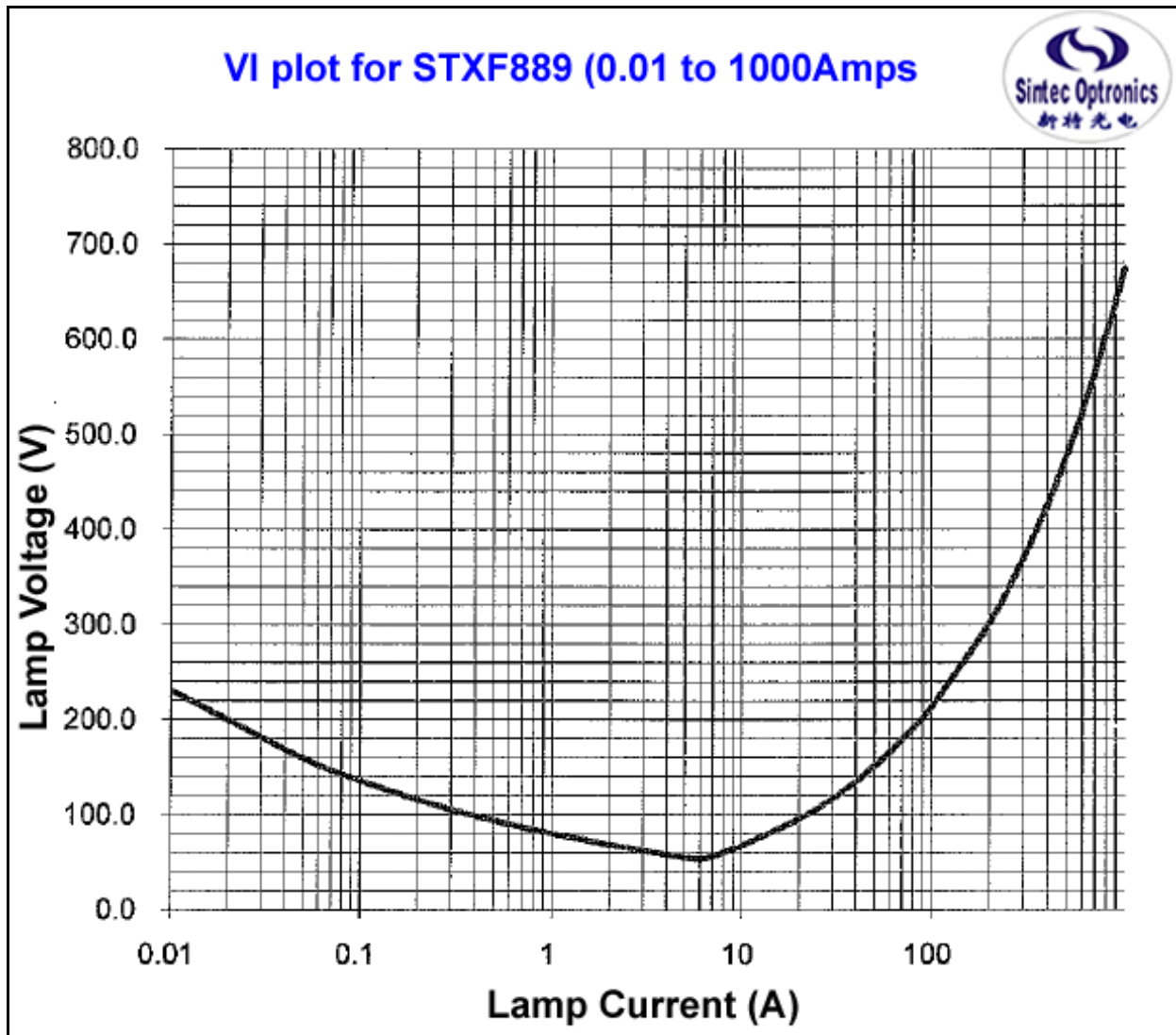
Note 5: Minimum trigger pulse width (μs) at minimum trigger voltage.

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 Ko (see VI plot).





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