

Light Source BPX100 Pulsed Xenon Light Source



The BPX100 is a compact 5 Watt Xenon flash lamp module complete with an internal power supply and trigger circuitry. Flash lamps are similar to all other arc lamps in that optical radiation is produced by passing an electrical current through a gas. Xenon is the most efficient gas for flash lamps and produces both continuous and line spectra. Current is supplied by a charged capacitor capable of discharging large amounts of energy in a short period of time. The low pulse-to-pulse variations and long operating life characteristics make these lamps ideal as excitation light sources for fluorescence spectroscopy and UV rich sources for reflectance and transmittance spectrophotometry. The BPX100 features an SMA 905 connector for fiber optic light coupling.

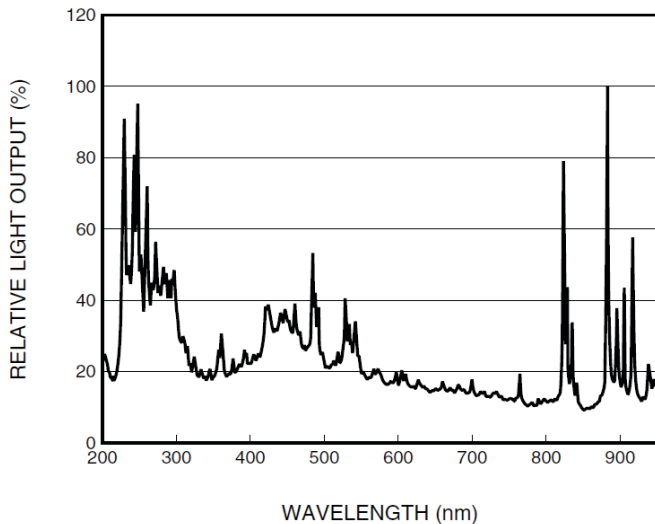
Highlights:

- Compact
- AC Power
- Trigger Circuitry

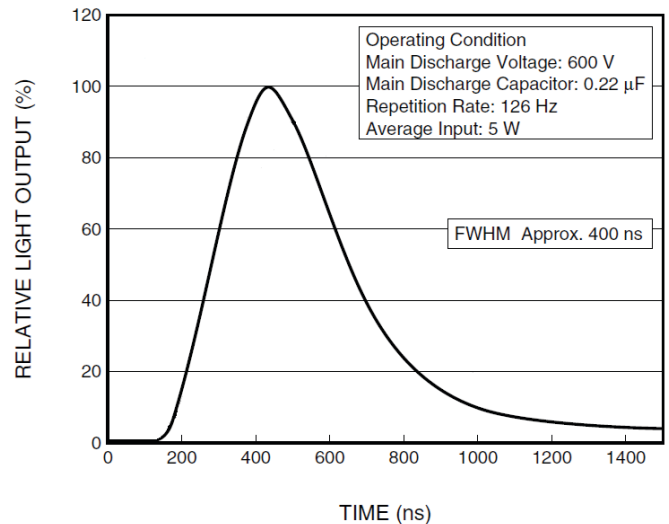
Applications:

- Fluorescence Spectroscopy
- Reflectance Spectrophotometry
- Transmittance Spectrophotometry
- Much more...

●Spectral Distributions



●Flash Pulse Waveform



Specifications:

Light Source	Xenon Flash Lamp
Arc Size	1.5 mm
Window Material	UV glass
Spectral Distribution	185 - 2000 nm
Light Coupling	SMA 905
Main Discharge Voltage Adjustable Range	400 - 600 V
Main Discharge Capacitor	0.22 μ F
Max. Average Input (Continuous)	5 Joules
Light Output Stability	2.05% CV; 5.06 p-p
Estimated Lamp Lifetime	1.0 x 10 ⁹ Flashes
Cooling	Natural Air Cooling
Operating Ambient Temperature	0 to 40°C
Storage Ambient Temperature	-40 to 90°C
Storage Ambient Humidity	Less than 95%, non-condensing
Input Voltage Range	100 - 240 VAC at 50/60 Hz
Current Rate	< 0.55 A @ 110 VAC
Inrush Current (Typical)	20 A @ 100 VAC Input 40 A @ 200 VAC Input
Dimensions	7.54 x 6.67 x 2.26 inches 191.5 x 169.5 x 57.4mm
Weight	2.4 lbs [1.1 kg]

Dimensions (inches):

