B&W TEK INC.
Your Spectroscopy Partner

SPECTROMETERS | LASERS | TOTAL SOLUTIONS

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. It is 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 the BPX100 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 it ideal as an excitation light source for fluorescence spectroscopy and UV rich source for reflectance and transmittance spectrophotometry. The BPX100 features an SMA905 connector for fiber optic light coupling.

Features:

- Compact
- AC Power
- Trigger Circuitry

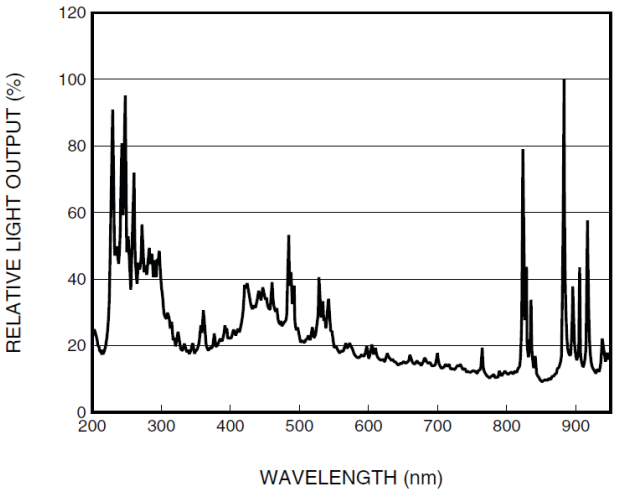
Applications:

- Fluorescence Spectroscopy
- Reflectance Spectrophotometry
- Transmittance Spectrophotometry

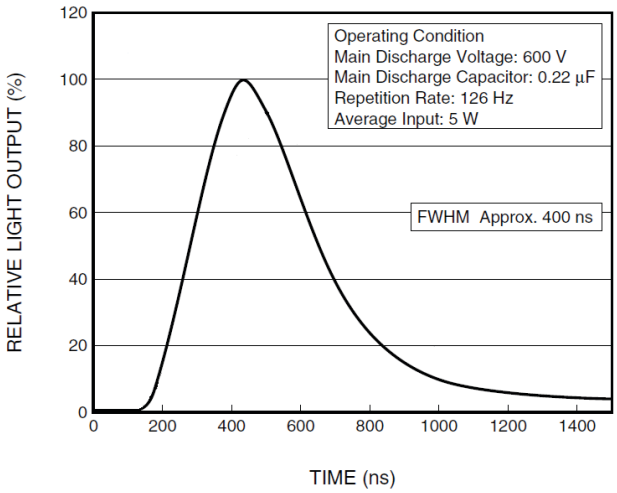
Specifications:

Light Source	Xenon Flash Lamp
Arc Size	1.5mm
Window Material	UV glass
Spectral Distribution	185nm - 2000nm
Light Coupling	SMA905
Max. Average Input	5 W
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	7.54in x 6.67in x 2.26in 191.5mm x 169.5mm x 57.4mm
Weight	2.4lbs (1.1kg)

●Spectral Distributions

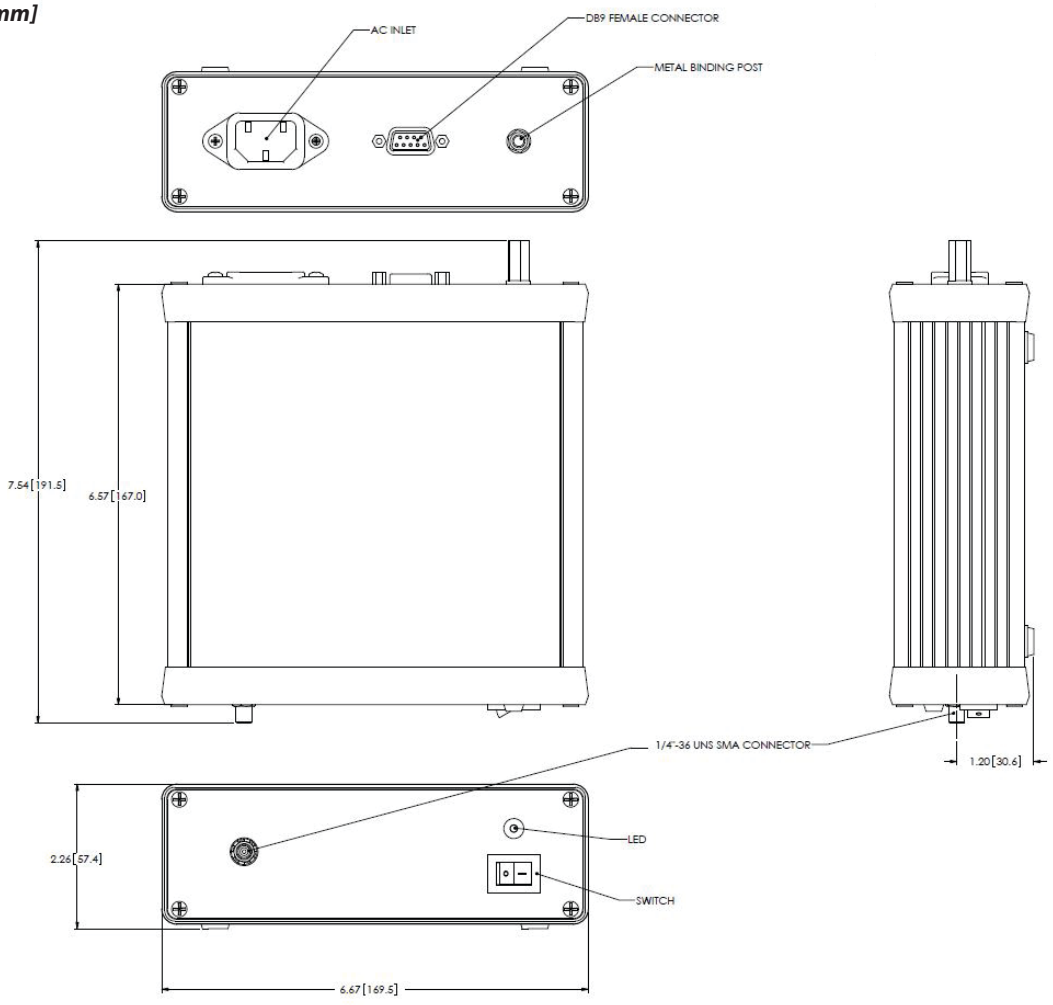


●Flash Pulse Waveform



Dimensions:

Units: in [mm]



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