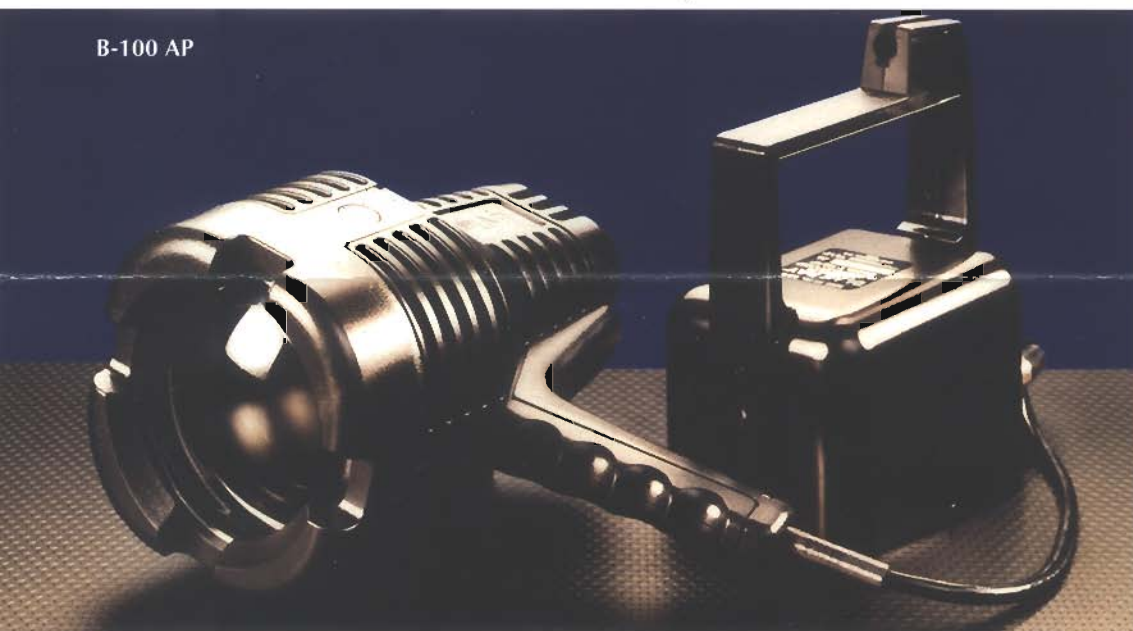


B-100 Series Ultraviolet Lamps

UVP/Ultra-Violet Products, develops and manufactures a wide range of ultraviolet products for the electronics, life science and security industries.

B-100 AP



B-100 YP



B-100 A

The versatile B-100 Series of high powered ultraviolet (UV) inspection lamps offer brilliant irradiance for optimum fluorescence. With seven lamps to choose from, there is one for your long wave UV inspection needs

Features: Lamp heads on all models of the B-100 Series lamps are mounted onto pistol-grip handles that balance well in the hand. These ergonomically designed units reduce operator fatigue. The grip handle on all models (except the B-100SP) fits into the transformer base allowing the lamp head to rotate a full 360°. The self-ballasted B-100SP requires no external transformer. The patented Cool-Touch™ lamp housing allows users to handle the lamp head regardless of how long the lamp has been on. These rugged lamp heads are molded from a special heat-resistant plastic. Unlike the wire-cage housings of competitive lamps, these lamp housings are safe— never too hot to touch. This feature comes standard on AP, YP, and SP models. All UVP high powered ultraviolet lamps can be placed face down on a working surface without damage to the filter.

The Lamps:

B-100AP: Provides 100 watts of high-intensity longwave illumination. This lamp features the Cool-Touch housing. At 18 inches (457 mm), the B-100AP produces a highly intense center of UV irradiance about 5 inches (127 mm) in diameter. The lamp head is connected to the transformer base by an 8 foot cord. CSA listed.

B-100AP/R: This model has the same features as the B-100AP plus 20 foot (6.1 meters) primary and secondary cords which provide added mobility. Two cord holders, extending 2.93 inches (74 mm) on both sides of the ballast, keep slack cord under control.

B-100A: This lamp features 100 watts of high powered longwave light—excellent for UV inspection purposes. The lamp head, housed in scratch-resistant powder-painted aluminum, is connected to the transformer base by an 8 foot (2.44m) cord. UL listed.

B-100A/R (NSN 6635-00-611-5617): This lamp has the same features as the B-100A plus 20 foot (6.1 m) primary lamp and secondary line cords which allow for additional mobility. Two cord holders, extending 2.93 inches (74 mm) on either side of ballast, keep slack cord under control. UL listed.

B-100SP: This 160 watt longwave, self-ballasted lamp is our most portable high-powered lamp. The ballast is built directly into the Cool-Touch lamp head. An 8 foot (2.44 m) line cord and UVP Bulb-Protector come standard with this model. An "on/off" switch is positioned on the handle for accessibility.

B-100YP: Provides high contrast light for the semiconductor fabrication industry. In addition to the Cool-Touch housing, this lamp features a yellow filter which blocks wavelengths shorter than 500nm and produces three strong mercury lines at 543, 574, and 576nm. Because most photoresist absorption occurs below 450nm, the B-100YP is the perfect choice for semiconductor inspection. The lamp head is connected to the transformer base by an 8 foot (2.44m) cord. CSA listed.

B-100Y: This product has the same yellow filter and wavelength capability as the B-100YP. B-100Y is housed in scratch-resistant, powder-painted aluminum. It's lamp head is attached to the transformer base with an 8 foot (2.44 m) cord. UL listed.



B-100 A/R



B-100 SP

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B-100front.doc



HIGH POWERED UV LAMPS

MODEL	PART NUMBER	VOLTAGE	BULB	LAMP WATT	INTENSITY (@ 2" @ 10" W/cm ²)	LAMP CORD LENGTH			WEIGHT: TOTAL LAMP HEAD	DIMENSIONS
						PRIMARY (LAMP)	SECONDARY (LINE)	COOL-TOUCH HOUSING		
B-100A	95-0044-22	115V/60Hz	SPOT	100W	21,700/ 8,900	8 ft. (2.44m)	8 ft. (2.44m)	NO	11.72 lbs (5.33 kg)/ 2.38 lbs (1.08 kg)	BALLAST: A, AP, Y, YP 4.5"W x 8.38"H x 6.38"D (114 x 213 x 162 mm) A/R 10.36"W x 8.38"H x 6.38"D (263 x 213 x 162 mm) LAMP HEAD: A, A/R, Y 8.5"D x 5.5"Dia. (216 x 140 mm) AP, SP, YP 9.75"D x 6"Dia. (248 x 152 mm) HANDLE: A, A/R, Y 1.25"W x 5.5"H (32 x 140mm) AP, SP, YP 1.5"W x 5.38"H (38 x 137mm)
	95-0044-02	200-260V/50-60Hz								
B-100AP	95-0127-01	115V/60Hz	SPOT	100W	21,700/ 8,900	8 ft. (2.44m)	8 ft. (2.44m)	YES	12.48 lbs (5.67 kg)/ 3.14 lbs (1.43 kg)	
	95-0127-02	200-260V/50-60Hz								
B-100AP/R	95-0127-06	115V/60Hz	SPOT	100W	21,700/ 8,900	20 ft. (6.1m)	20 ft. (6.1m)	YES	15.54 lbs (7.06 kg)/ 3.14 lbs (1.43 kg)	
	95-0127-07	200-260V/50-60Hz								
B-100A/R	95-0044-03	115V/60Hz	SPOT	100W	21,700/ 8,900	20 ft. (6.1m)	20 ft. (6.1m)	NO	14.78 lbs (6.72 kg)/ 2.38 lbs (1.08 kg)	
	95-0044-04	200-260V/50-60Hz								
B-100SP	95-0128-01	115V/60Hz	Self-Ballasted	160W	11,600/ 5,000	8 ft. (2.44m)	N/A	YES	3.14 lbs (1.43 kg)	
B-100Y	95-0044-24	115V/60Hz	SPOT	100W	*	8 ft. (2.44m)	8 ft. (2.44m)	NO	11.72 lbs (5.33 kg)/ 2.38 lbs (1.08 kg)	
	95-0044-18	200-260V/50-60Hz								
B-100YP	95-0127-03	115V/60Hz	SPOT	100W	*	8 ft. (2.44m)	8 ft. (2.44m)	YES	12.48 lbs (5.67 kg)/ 3.14 lbs (1.43 kg)	
	95-0127-04	200-260V/50-60Hz								

- * B-100Y and YP have a special filter that blocks out all UV light.
- ** Ballast dimensions include the handle/lamp holder on top of the unit.



Accessories

Finger Guard: Popular in readmission settings frequented by small children. Helps keep tiny hands away from the filter glass. Available for B-100AP.

Lamp Funnel: The funnel is designed for fluorescence analysis on a microscope platform. The beam of UV light is directed where you want it—on the specimen—eliminating stray UV radiation. The powder-painted outer finish of the funnel is scratch resistant while the reflective metal interior maximizes UV

intensity. The funnel can be attached and removed quickly. Usable with all Cool-Touch lamps.

Lamp Visor: Designed for time extended fluorescence analysis where maximum UV intensity is desired. The visor shields the user's eyes, thereby eliminating distracting "blue-haze", while directing full UV intensity on the object of analysis. Quickly fastens to the lamp head and is easily removed. Models available for all high-powered UV lamps.

Splash Guard: Protects the lens and bulb from damage when working with chemicals or liquids that have splash potential. Use of the splash guard does not reduce UV intensity. Available for use on all Cool-Touch lamp models.

Bulb Protector: A real money saver—helps prevent bulb breakage during heavy handling. Keeps bulbs stable thereby extending bulb life and reducing replacement costs. Comes standard in the SP Model. Available as an option with all B-100 Series lamps.

Replacement Bulbs

100 Watt Spot Bulb: Bulb life is rated at 5000 hours. This bulb is standard in all

externally ballasted lamp models. Refer to chart for lamp intensities.

Self-Ballasted Bulb: The 160 watt self-ballasted bulb is designed specifically for the B-100SP. Bulb life averages 450 to 2000 hours depending on use patterns. Refer to chart for lamp intensities.

Flood Bulb: May be used in all externally ballasted models. Bulb life is estimated at 2000 hours. UV intensity of the flood bulbs on the "A" models at 2 inches is 11,900 μW/cm² and at 10 inches is 2,500 μW/cm².

Applications

Applications include Industrial Inspection, Quality Control, Readmission, UV Curing, Forensics, NDT, Art Inspection, Laboratory Inspection, and Leak Detection. Longwave ultraviolet light fluoresces extremely fine particles and surface defects normally invisible to the human eye.

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