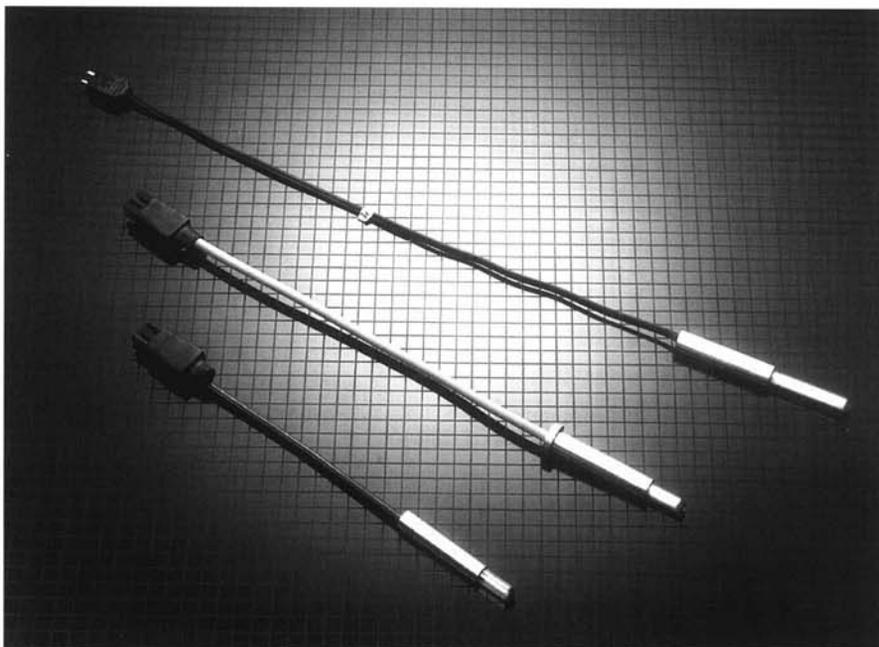


More Than A Lamp Manufacturer



FEATURES

- **High UV-VIS Output**
- **Low Noise**
- **Ozone Free And Ozone Producing**
- **Application Specific Phosphor Coatings**
- **Various Lengths And Configurations**
- **Rare Gas Filled Analamps:**
Neon, Argon, Krypton, Xenon

APPLICATIONS

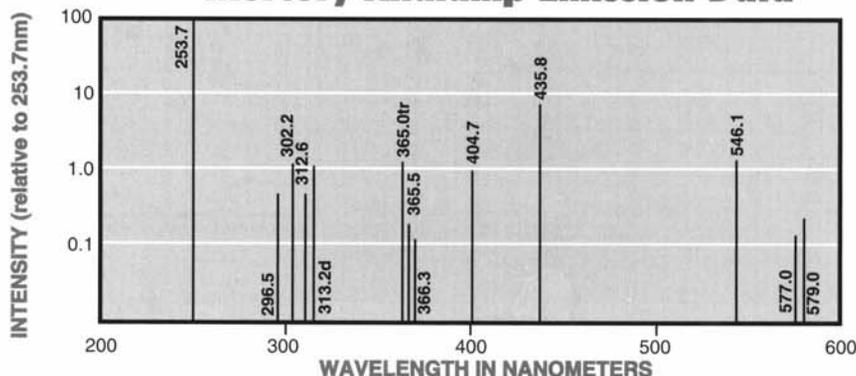
- **Spectroscopy, Fluorometry, Wavelength Calibration.**
- **Water and Air Purification.**
- **Ozone Generators, Interferometers**
- **Photochemical Studies, UV Curable Polymers.**
- **Fixed Wavelength Photometers.**
- **UV Sterilizers, Analytical Instruments**

BHK offers a wide variety of Analamp[®] light sources for analytical, industrial, medical and scientific uses.

BHK Analamps[®] feature an efficient double-bore tubing construction using high quality fused silica. Low-pressure mercury Analamps[®] provide reliable UV-VIS radiation and are also available with a special quartz jacket that eliminates 185nm radiation for ozone-free operation. This jacketing also provides more stable lamp operation by reducing the effects of rapid ambient temperature changes.

Analamps[®] are manufactured using the strictest quality control and product testing procedures. Most Analamps[®] are listed as Component Recognized by Underwriters' Laboratories when used with the appropriate UL listed BHK power supply. All BHK mercury Analamps are available with application-specific phosphor coatings to meet your needs. Special rare gas Analamps[®] are also available with fills of Argon, Krypton, Neon, or Xenon when other wavelengths are required.

Mercury Analamp Emission Data



With over 160 years of combined technical experience, BHK Inc.'s engineering staff is always available to assist you with specific applications and technical needs. In addition, they will also be happy to assist in the modification of existing parts, or in the design and manufacturing of custom light sources.



More Than A Lamp Manufacturer

Specifications

9.0mm O.D. Ozone Free Quartz Jacketed Analamps®

P/N	SPECTRAL AND ELECTRICAL					DIMENSIONAL DATA				
	PEAK (nm)	RAD. INCIDENCE (uW/cm ²) @ 20cm	BANDWIDTH FWHM (nm)	START V (Vrms) MAX.	OPER. V (Vrms) NOMINAL	LIGHTED LENGTH INCH/mm	CABLE/CORD LENGTH INCH/cm	HANDLE TYPE	CABLE/CORD TYPE	CONNECTOR TYPE
80-1025-01	254	36	<1	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/285	285	6	32	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/304	304	4	43	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/351	351	6	41	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/368	368	6	19	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/370	370	4	77	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/460	460	4	105	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/494	494	2	170	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/528	528	2	41	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/578	578	2	84	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1025-01/658	658	2	14	900	200	1.0/25.4	17.5/44.5	2	1	1
80-1057-01	254	79	<1	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/285	285	14	32	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/304	304	9	43	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/351	351	14	41	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/368	368	14	19	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/370	370	9	77	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/460	460	9	105	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/578	578	4	84	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1057-01/658	658	4	14	950	270	2.0/50.8	17.5/44.5	2	1	1
80-1127-01	254	200	<1	1050	500	5.0/127.0	17.0/43.2	2	1	1
80-1127-01/304	304	24	43	1050	500	5.0/127.0	17.0/43.2	2	1	1
80-1127-01/351	351	36	41	1050	500	5.0/127.0	17.0/43.2	2	1	1
80-1127-01/370	370	24	77	1050	500	5.0/127.0	17.0/43.2	2	1	1
80-1127-01/528	528	7	41	1050	500	5.0/127.0	17.0/43.2	2	1	1
80-1178-01	254	275	<1	1500	600	7.0/178.0	17.0/43.2	2	1	1
80-1178-01/351	351	50	38	1500	600	7.0/178.0	17.0/43.2	2	1	1
80-4022-13	254	38	<1	636	200	1.0/25.4	8.86/22.5	3	7	NONE
80-4022-13/285	285	6	32	636	200	1.0/25.4	8.86/22.5	3	7	NONE
80-4022-13/304	304	4	43	636	200	1.0/25.4	8.86/22.5	3	7	NONE
80-4022-13/351	351	6	41	636	200	1.0/25.4	8.86/22.5	3	7	NONE
80-4022-13/370	370	4	77	636	200	1.0/25.4	8.86/22.5	3	7	NONE
80-4022-13/460	460	4	105	636	200	1.0/25.4	8.86/22.5	3	7	NONE
UL Lamps										
80-7025-01	254	35	<1	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/285	285	6	32	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/304	304	4	43	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/351	351	6	41	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/368	368	6	19	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/460	460	4	106	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/494	494	2	170	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/578	578	2	84	900	200	1.0/25.4	24.0/61.0	2	2	4
80-7025-01/658	658	2	14	900	200	1.0/25.4	24.0/61.0	2	2	4
Lamp Mgr										
80-8024-01	254	36	<1	900	200	1.0/25.4	18.0/45.7	8	3	4
80-8024-01/285	285	6	32	900	200	1.0/25.4	18.0/45.7	8	3	4
80-8024-01/304	304	4	43	900	200	1.0/25.4	18.0/45.7	8	3	4
80-8024-01/351	351	6	41	900	200	1.0/25.4	18.0/45.7	8	3	4
80-8024-01/368	368	6	19	900	200	1.0/25.4	18.0/45.7	8	3	4
80-8057-01	254	79	<1	950	270	2.0/50.8	18.0/45.7	8	3	4
80-8057-01/285	285	14	32	950	270	2.0/50.8	18.0/45.7	8	3	4
80-8057-01/304	304	9	43	950	270	2.0/50.8	18.0/45.7	8	3	4
80-8057-01/351	351	14	41	950	270	2.0/50.8	18.0/45.7	8	3	4
80-8057-01/368	368	14	19	950	270	2.0/50.8	18.0/45.7	8	3	4

Notes

- 1) Radiant incidence test @ the peak wavelength -
Lamp operating current = 20mArms (All values are typical for new lamps)
- 2) Phosphor lamp output includes contribution of phosphor only within the FWHM bandwidth and does not include the contribution of spectral lines.
See phosphor lamp data sheet for more information.
- 3) UL Lamps available in 2" lighted lengths.
- 4) Phosphor coatings available for all Analamp® lighted lengths.

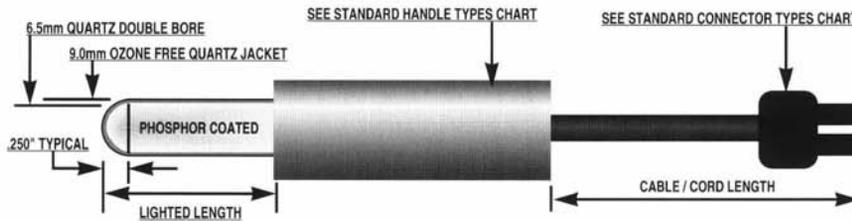
Specifications

6.5mm O.D. Non-Jacketed Ozone Free and Ozone Generating Analamps®.

P/N	SPECTRAL AND ELECTRICAL				DIMENSIONAL DATA				
	PEAK (nm)	INTENSITY (uW/cm ²) @ 20cm	START V (Vrms) MAX.	OPER. V (Vrms) TYPICAL	LIGHTED LENGTH INCH/mm	CABLE/CORD LENGTH INCH/cm	HANDLE TYPE	CABLE/CORD TYPE	CONNECTOR TYPE
OZONE FREE ANALAMPS®									
81-2018-02	254	36	900	200	1.0/25.4	5.0/12.7	7	1	NONE
81-1057-98	254	80	950	270	2.0/50.8	17.5/44.5	1	1	1
SPECIAL GAS FILLED ANALAMPS®									
81-1057-18 Ne	640	4.5	1200	370	2.0/50.8	17.0/43.2	1	1	1
81-1057-21 Ar	764	2	950	370	2.0/50.8	17.0/43.2	1	1	1
81-1057-23 Kr	760	2	950	270	2.0/50.8	17.0/43.2	1	1	1
81-1057-24 Xe	467	0.02	1200	270	2.0/50.8	17.0/43.2	1	1	1
OZONE GENERATING ANALAMPS®									
81-1025-01	254	36	900	200	1.0/25.4	17.0/43.2	1	1	1
81-1057-01	254	80	950	270	2.0/50.8	17.0/43.2	1	1	1
81-1127-01	254	200	1050	500	5.0/127.0	17.5/44.5	1	1	1
81-7025-01	254	47	950	200	1.0/25.4	17.5/44.5	1	2	4

Notes 1) Intensity test @ the peak wavelength
1a) lamp operating current = 20mA rms
2) Any Analamp® may be obtained in ozone producing or ozone free glass. Different gas combinations are available.

Hardware Options



Standard Cable and Cord Types

TYPE	SHIELDED	COLOR	# OF CONDUCTORS	AWG	DESCRIPTION
1	NO	BLACK	2	18	VINYL INSULATED CORD
2	YES	BLACK	3	20	PVC INSULATED CABLE
3	YES	YELLOW	3	20	SILICONE INSULATED CABLE
4	NO	BLACK	2	20	VINYL INSULATED LEAD WIRES
5	YES	GREY	3	20	PVC INSULATED CABLE
6	NO	ORANGE	2	22	TEFLON INSULATED LEAD WIRES
7	NO	BLACK	2	22	SILICONE INSULATED CABLE

Lamp Temperature (Typical Data)

P/N SERIES	QUARTZ TEMP. (C°)	HANDLE TEMP. (C°)	WARM UP TIME (mins)	COVERED W/ HEATSHRINK
80-1025-01	60	65	10	YES
80-1057-01	60	65	10	YES
80-4022-XX	65	70	10	NO
80-7025-01	60	65	10	YES
80-7057-01	60	65	10	YES
80-1127-01	55	70	15	YES
80-1178-01	55	70	15	YES
81-1025-XX	70	75	10	YES
81-1057-XX	70	75	10	YES
81-1127-XX	60	80	15	YES
81-1178-XX	60	80	15	YES
81-2018-XX	75	100	10	NO
81-7025-XX	70	75	10	YES

XX - Means Any Variation

Standard Handle Types

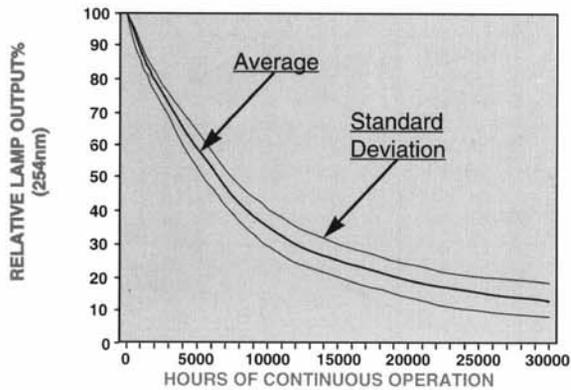
TYPE	O.D.	LENGTH	MATERIAL	FINISH
1	0.375	2.375	Carbon Steel	Ni Plate*
2	0.5	2.375	Carbon Steel	Ni Plate*
3	0.4375	1.89	6061/T6 Alum.	Clr Anodz.
4	0.4375	1.368	6061/T6 Alum.	Clr Anodz.
5	0.375	2.375	Phenolic	Black
6	0.375	1.375	Phenolic	Black
7	0.375	1.938	Phenolic	Black
8	0.050	2.60	Carbon Steel	Ni Plate*

* Must be used where grounded handle is required

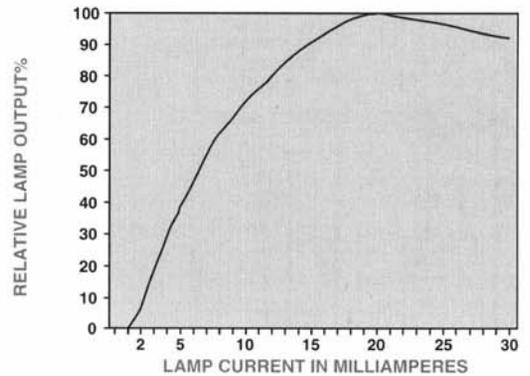
Standard Connector Types

TYPE	# OF PINS	DESCRIPTION
1	2	Polarized Bi-Pin Video
2	2	Molex
3	3	Molex
4	6	Amp Mate-N-Lok

Analamp Typical Life Data



Light Output Vs. Current



Analamp Power Supplies

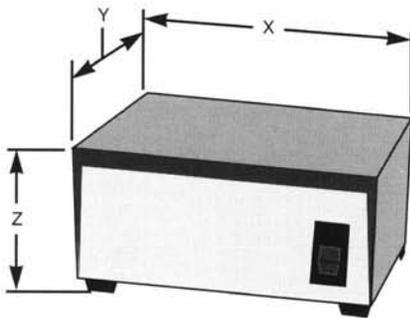


FIG. 1 - Stand Alone

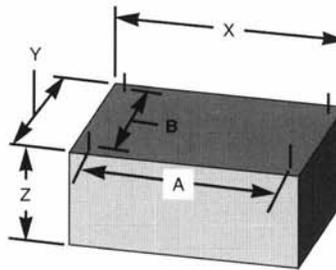


FIG. 2 - OEM DC Inverters

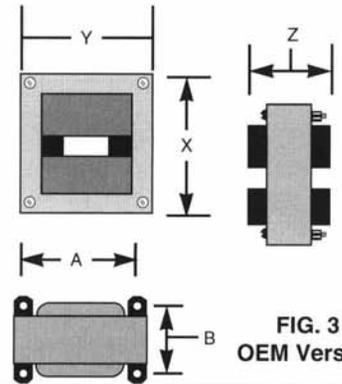


FIG. 3 - OEM Versions

	ELECTRICAL DATA					MECHANICAL DATA							
	P/N	INPUT	Volt. (rms)	OUTPUT Curr. (rms)	Freq. (Hz)	FIG.	X	Y	Z	A	B	LEADS (L x D)	WT.
OEM DC INVERTERS													
12VDC (PCB Mountable)	68-0020-04	12V/400mADC	1100Vrms	20mArms	24KHZ	2	2.5"	1.25"	1.0"	2.0"	0.80"	0.170"x0.040"	4 oz
24VDC (PCB Mountable)	68-0020-11	24V/230mADC	1300Vrms	20mArms	26KHZ	2	2.5"	1.25"	1.0"	2.0"	0.80"	0.170"x0.040"	4 oz
48VDC (PCB Mountable)	68-0020-07	48V/100mADC	1200Vrms	20mArms	25KHZ	2	2.5"	1.25"	1.0"	2.0"	0.80"	0.170"x0.040"	4 oz
LABORATORY AC SUPPLIES													
Stand-Alone	90-0001-01	120V AC	1600V	20mA	50/60	1	6.25"	4.50"	3.38"	-	-	18"	4lb. 14oz
Stand-Alone	90-0001-02	230V AC	1600V	20mA	50/60	1	6.25"	4.50"	3.38"	-	-	18"	4lb. 14oz
Stand-Alone UL*	90-0002-01	120V AC	1600V	20mA	50/60	1	6.25"	4.50"	3.38"	-	-	18"	4lb. 14oz
Stand-Alone UL*	90-0002-02	230V AC	1600V	20mA	50/60	1	6.25"	4.50"	3.38"	-	-	18"	4lb. 14oz
POWER TRANSFORMERS													
OEM VERSIONS	50-0001-01	120/230V AC	1600V	20mA	50/60	3	3.25"	3.75"	2.63"	2.0"	3.1"	18"	3lb. 10oz
OEM VERSIONS	50-0001-08	120/230V AC	1200V	20mA	50/60	3	2.50"	3.00"	2.50"	2.0"	2.5"	18"	2lb. 4oz

NOTES: 1) DC supplies used to operate inverters should have a minimum capacitance of 100µF to ensure proper operation.
 2) Inverters can sustain short circuit and open circuit output conditions indefinitely.
 3) All listed data are nominal values unless otherwise specified.

* Underwriters Laboratories Approved

WARRANTY

POWER SUPPLIES: 1 yr parts & labor
PHOSPHOR COATED LAMPS: 1 yr or 3500 hrs to half initial intensity
NON-PHOSPHOR COATED LAMPS: 1 yr or 5000 hrs to half initial intensity



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