

**Laser  
Safety**

**Eyewear**

**Protection Series**

**NEW  
PRODUCT**



**Features**

- Durable
- Surface scratches have no effect on filter safety
- Protection coupled with style
- Will not photobleach or degrade over time

**Benefits**

- CE & ANSI Safety Compliance
- Optimal balance between protection and visibility

**Protection Levels**

All frame styles are available with the following lenses in the designated wavelengths. When ordering, please use the designated part number for your desired level of protection.

**Lenses:**

- 1.) 375nm-532nm
- 2.) 635nm-670nm • 785nm
- 3.) 785nm-830nm
- 4.) 840nm-1080nm
- 5.) 1152nm-1550nm

**Alignment lenses are also available with all of our frames and are available only within the visible spectrum.**

**For additional information, please visit our laser safety page on our website.**

In an effort to enhance our already high safety standards, Power Technology, Inc. is pleased to offer **Laser Safety Eyewear** to be used in conjunction with Power Technology, Inc.'s laser modules. Our eyewear provides optimal protection for a large variety of laser applications.

- Polycarbonate Lenses are hardcoated and durable.
- Laser protection and absorptive dyes molded into the plastic.
- Non-reflective technology-energy is absorbed for a minimum of 10 seconds before loss of protection.
- All Power Technology's Laser Safety Eyewear includes a protective case, cleaning cloth and lanyard.

- Lens dyes are based on decades of research and innovation in chemistry.
- Eyewear will not photobleach or degrade over time.
- Surface scratches have no affect on the filter safety.
- If you are concerned about which filter is right for you, just contact one of Power Technology's technical representatives to assist you to find the best filter for your application.

There are five main filter classifications but of those five, there are several choices in regard to optical density, visible light transmission, wavelength etc. To safely choose which is right for your application please see the reverse side of this sheet.

**Frame styles**



PN: LSEW-LFO-\_\_



PN: LSEW-ADJ-\_\_



PN: LSEW-SFO-\_\_



PN: LSEW-GGL-\_\_

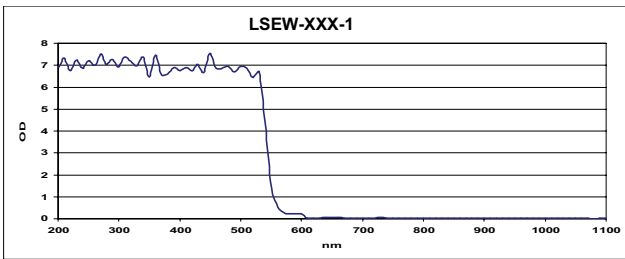


PN: LSEW-UFO-\_\_



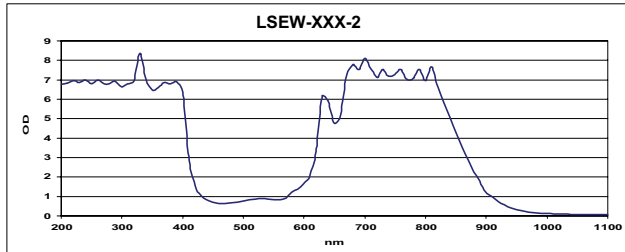
**Power Technology, Inc.**

## LASER FILTER #1



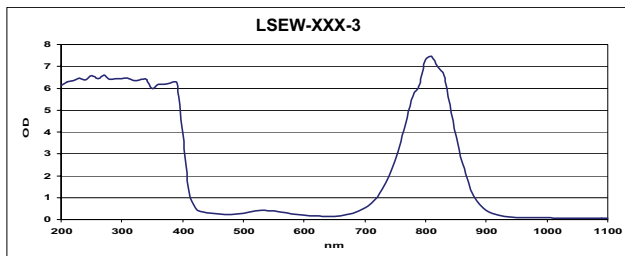
Wavelength	OD	%VLT	Wavelength	Mode	Rating
190nm - 449nm	5+	39%	180-315	D	L7
450nm - 532nm	6+	Orange	180-315	R	L4
			>315-532	D	L4
			>315-532	I, R	L6
			450-532	D	L5
			450-532	I, R	L6

## LASER FILTER #2



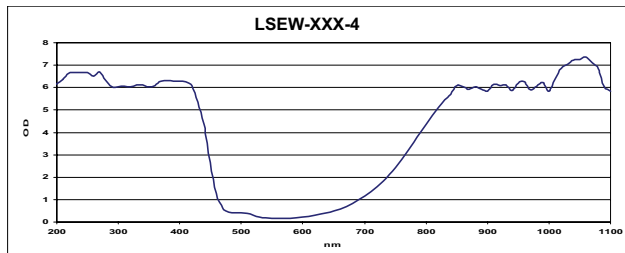
Wavelength	OD	%VLT	Wavelength	Mode	Rating
190nm - 400nm	5+	12%	625-830	D, R	L4
625nm - 850nm	4+	Blue	830-850	D, I, R	L3
662nm - 835nm	5+		625-670	I	L4
633nm	5+		800-830	I	L4
			670-800	I	L5

## LASER FILTER #3



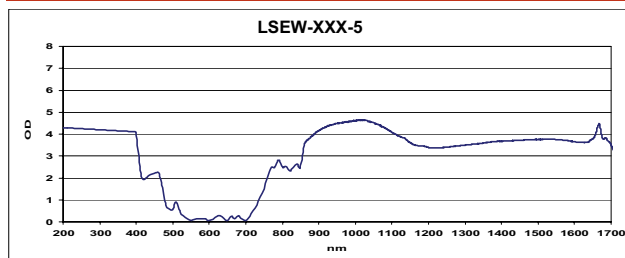
Wavelength	OD	%VLT	Wavelength	Mode	Rating
190nm - 390nm	5+	61%	180-315	D	L6
785nm - 830nm	5+	Pink	180-315	R	L4
800nm - 820nm	6+		>315-390	D	L4
			>315-390	R	L6
			785-830	D	L4
			785-830	I	L5
			800-820	I	L6

## LASER FILTER #4



Wavelength	OD	%VLT	Wavelength	Mode	Rating
190nm - 400nm	5+	59%	840-1090	D	L4
1064nm	7+	Green	840-950	I, R	L5
950nm - 1070nm	6+		950-1070	I, R	L6
840nm - 950nm	5+		1070-1090	I, R	L4
			1090-1100	D, I, R	L3

## LASER FILTER #5



Wavelength	OD	%VLT	Wavelength	Mode	Rating
190nm - 450nm	5+	19%	180-315	D	L6
820nm - 1720nm	3+	Green	316-400	D	L4
			180-400	R	L4
			770-820	D, I, R	L2
			821-865	D, I, R	L3
			866-1145	D, I, R	L4
			940-1064	I, R	L5
			1065-1145	I, R	L4
			1146-1400	D, I, R	L3
			1401-1840	D, I, R	L2
			1841-1950	D, I, R	L1

**OD Optical Density**-A logarithmic expression for the attenuation produced by an attenuating medium, such as an eye protection filter.

**% VLT - Visible Light Transmission**-Percentage of light that is allowed through the lense. The higher the percentage, the lighter the lense.

## Power Technology, Inc.

**Mode**-Method of testing at a given wavelength in 10 second intervals.

D=Constant Wave, I= Pulse, R=Giant Pulse.

**Rating**-This is the scale number described in the standard EN207 specifying eyewear protection against laser radiation. These numbers are used by laser safety goggle manufacturers to specify the level of protection they afford.