



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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1100 Series Power Supplies



1100 Series Power Supplies from Excelitas are designed for high energy capacitor discharge service with any guided arc bulb-type flashlamp.

The 1100 Series Power Supplies from Excelitas Technologies are designed to obtain optimum performance from the 1100 Series High-Stability Short Arc Xenon Flashlamps and Lite-Pac® Trigger Modules. These power supplies are well regulated, have low ripple, and are DC input operated. Each power supply contains the circuits to charge the discharge capacitor as well as the trigger switching circuits required to operate the Lite-Pac.

Power supply requirements vary by application and discharge power levels. Excelitas Technologies offers several standard units to operate all Flashlamps and Lite-Pacs.

Key Features

- Compact
- 10 or 20 Watts average power
- Regulated with low ripple
- Programmable output voltage
- Up to 1000 Hz flash rate

Applications

- Absorption analysis
- Immunoassay modules
- Fluorimetry
- Spectroradiometry
- Liquid and gas chromatography
- Colorimetry
- UV-VIS-NIR applications
- Machine vision

EXCELITAS
TECHNOLOGIES

1100 Series Power Supplies

1100 Series Power Supplies

Electrical Inputs			
	PS-1105	PS-1110	PS-1120
Voltage	11-14 VDC	11-28 VDC	15-28 VDC
DC Current	1.4 Amps @ 12 VDC	1.3 Amps @ 12 VDC	1.4 Amps @ 24 VDC
Peak Current	3.5 Amps @ 12 VDC	3.5 Amps @ 12 VDC	3.5 Amps @ 24 VDC
Trigger	+5V, 20-50mA peak input, 10-100µs pulse width, leading edge trigger. Optically isolated internal series resistor = 150Ω.		
$V_{ref} (V_O/V_{ref} = 100)$	N/A	4.5 – 6.0 VDC	4-10 VDC
EMI Suppression	No	Yes ¹	Yes ²

¹ Inductor and filter capacitor for power input. All inputs through shielded connector. Internal (shielded) output connector.

² Same as ¹ but with full filtering on power lines. (common-mode inductor; capacitive coupling to ground)

Electrical Outputs (Discharge)			
	PS-1105	PS-1110	PS-1120
Voltage (V_O)	600 ± 2% VDC	450-600 ± 2% VDC	400-1000 ± 2% VDC
Power Output	10 Watts max.	10 Watts max.	20 Watts max.
Charge Rate, minimum	10j/sec (12V input , 600V output)	10j/sec (12V input , 600V output)	20j/sec (24V input , 600V output)
Line Regulation	± 1%		
Ripple ¹	1%	0.5%	0.5%
Internal Discharge Capacitor	0.005µF	0.1µF	0.1µF ²
Recharge Delay	200µsec		

¹ Peak to peak maximum with standard internal discharge capacitor at maximum output.

² For the PS-1120 standard value is 0.1µF. 0.25µF and 0.5µF available.

Electrical Outputs (Trigger)			
	PS-1105	PS-1110	PS-1120
Trigger Voltage	175 ± 15 VDC		
Trigger Capacitor	0.1 µF		
Trigger Rate, maximum	300 Hz	300 Hz	1000 Hz

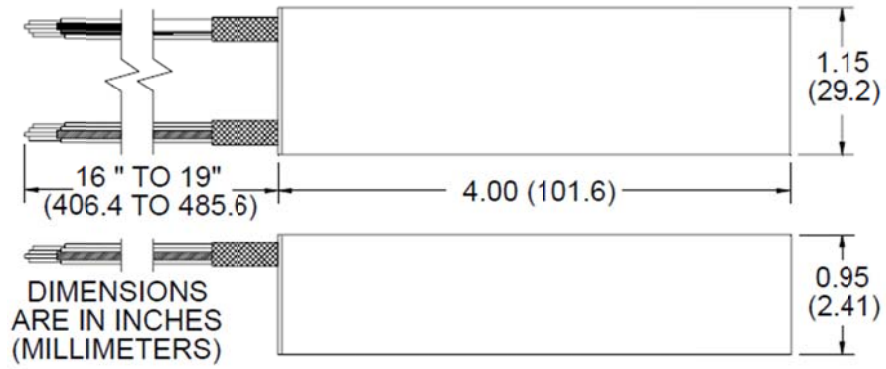
Mechanical Properties			
	PS-1105	PS-1110	PS-1120
Weight	6.5 oz. (180g)	14.5 oz. (410g)	22.5 oz. (635g)
Dimensions	1.15" x 0.95" x 4.05"	5.75"L x 2.19"W x 1.50"H	5.85"L x 3.63"W x 1.70"H
Input Connector	N/A (Leads)	9 Pin D-Sub	9 Pin D-Sub
Output Connector	N/A (Leads)	Wago Terminal Strip	Wago Terminal Strip
Enclosure	Plastic (Potted)	Metal	Metal

Environmental			
	PS-1105	PS-1110	PS-1120
Operating Temperature	+32°F to +104°F (0°C to +40°C)		
Storage Temperature	-40°F to +194°F (-40°C to +90°C)		

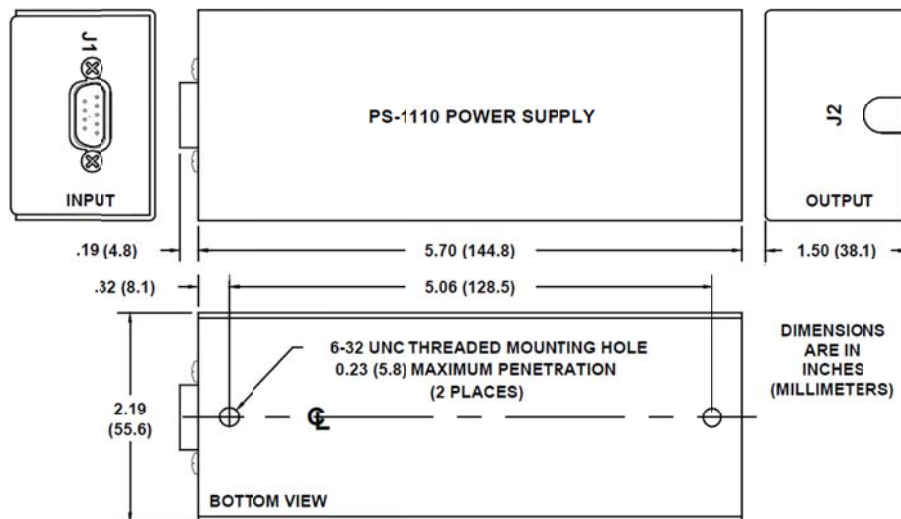
1100 Series Power Supplies

Mechanical Dimensions

PS-1105 Outline

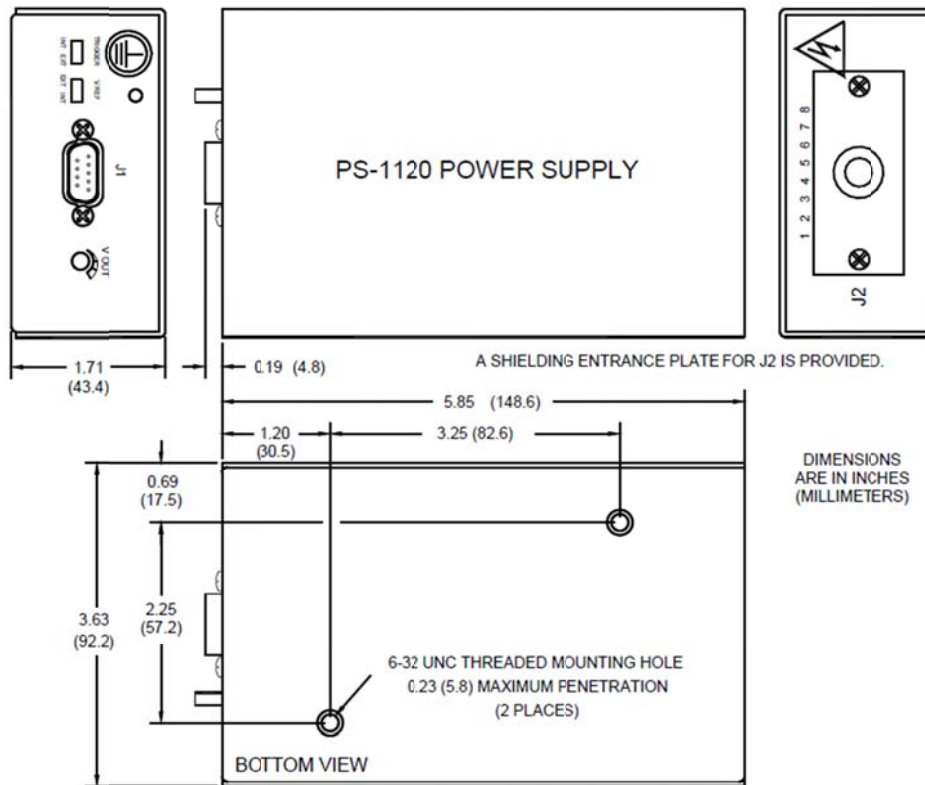


PS-1110 Outline



1100 Series Power Supplies

PS-1120 Outline



About Excelitas Technologies

Excelitas Technologies is a global technology leader focused on delivering innovative, customized solutions to meet the lighting, detection and other high-performance technology needs of OEM customers.

From medical lighting to analytical instrumentation, clinical diagnostics, industrial, safety and security, and aerospace and defense applications, Excelitas Technologies is committed to enabling our customers' success in their specialty end-markets. Excelitas Technologies has approximately 3,000 employees in North America, Europe and Asia, serving customers across the world.

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