

SERIES PS Designed to power the LA-x2 Series VHF & UHF amplifiers

Series PS HV DC Power Supply Overview

PS-70D	2.7 KV @ 1.3 A Two 3CX800A7 or 3CPX800A7 3 secondary taps
PS-70DX	3 KV @ 1.3 A Two 3CX800A7 or 3CPX800A7 -or- Single 8877/3CX1500A7 -or- 8938/3CX1500U7 3 secondary taps & 3 KVA xfmr
PS-71D	3 KV @ 0.6 A Single 3CX800A7 or 3CPX800A7 3 secondary taps & 1.7 KVA xfmr
PS-72	2.35 KV @ 1.3 A Two 3CX800A7 or 3CPX800A7 Single secondary tap



- OPTIONS:**
- High Capacity External Cooling Fan
 - Internal Cooling Fan
 - 50 Hz AC Mains Power Input

Engineered for the demanding operator, the **Series PS** will stand up to the toughest requirements. These linear high voltage power supplies are designed to complement the Lunar-Link LA-x2 Series 1500 watt output VHF and UHF Linear Amplifiers. Selectable primary taps enable optimal HV DC output for operation with either 3CX800A7 or pulse rated 3CPX800A7 tubes.

The **Series PS** power supply delivers effortless and reliable operation for 1500w RF output amplifiers in all modes, including high duty cycle digital modes such as PSK-443 and JT-44.

Rugged 3 ampere (200 amp. surge) silicon rectifier diodes assure reliable operation. A step start power-on relay system provides an additional measure of component protection. Heavy duty 20 ampere AC power relays will withstand years of use without failure. A 50 ohm / 100 watt HV surge limiting resistor protects both the power supply components and the RF amplifier's electron tubes.

The following specifications detail use with single or pairs of electron tubes as well as models to power large, single tube amplifiers.

CONNECTIONS:

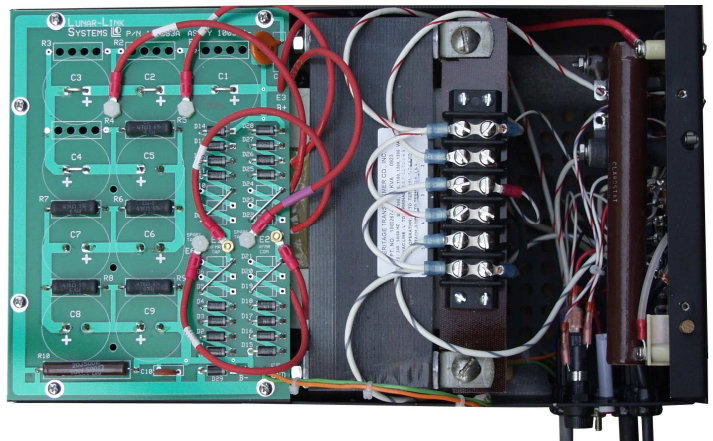
HV - 7' RG-59/U with MHV male plug.
Control - 7' with 6 pin Cinch connector. 24 VDC at 50 ma is required to power the AC on power relay.
AC mains power - 7', 12 awg. 3-conductor cord with a NEMA 6-20P plug.

* Three primary taps are provided allowing a +/- 100 VDC output voltage adjustment to accommodate local line voltage levels.

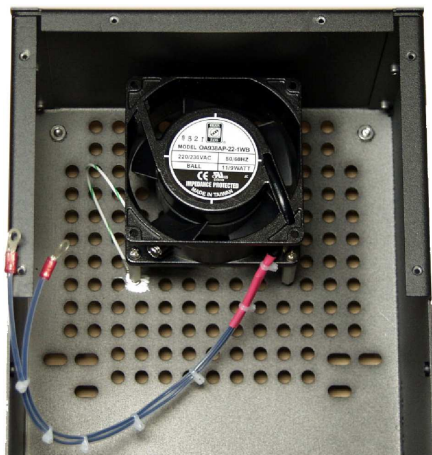
◇ Voltage drop specification is based on a 5 VAC line voltage drop under full load and includes the HV, series connected current limiting resistor.

DIMENSIONS: 7.2" H x 14.2" W x 8.2" D
18cm H x 36cm W x 20cm D
(not including height of feet)

SHIPPING: To save shipping costs in the domestic USA, we typically drop ship the power transformer from our vendor to your door. Installation is quick and easy following our written instructions.



Top view of the Series PS HV power supply showing the HV PCB and the installed power transformer.



Optional internal cooling fan mounted to the chassis floor under the filter capacitors.



Optional external cooling fan mounted to the power supply cover.



NEMA 6-20P AC Mains plug for typical 220 VAC connection in the USA

Model Specifications

Model PS-70D

The PS-70D is designed to power a pair of either 3CX800A7 or 3CPX800A7 electron tubes. In addition to the three primary transformer taps, this model includes three secondary taps to accommodate all types of operation.

	HIGH TAP	MID TAP	LOW TAP	Weight	AC Mains Input 60 Hz	AC Mains Input 50 Hz
NO LOAD VOLTAGE	3050 VDC	2850 VDC	2650 VDC	62 lb. (25 kg.)	230 240 250 VAC 17 A	220 230 240 VAC 18 A
FULL LOAD VOLTAGE ◊	2700 VDC	2500 VDC	2300 VDC			
CURRENT 100% DUTY	0.85 A	0.92 A	1.0 A			
CURRENT 60% DUTY	1.3 A	1.4 A	1.5 A			

Model PS-70DX

The PS-70DX is designed to power a pair of 3CPX800A7 pulse rated electron tubes to their maximum capability. This model also makes an excellent match for amplifiers using a single 8877/3CX1500A7 or 8938/3CX1500U7 electron tube. In addition to the three primary transformer taps, this model includes three secondary taps to accommodate all types of operation. A 3KVA CCS rated transformer, constructed with 10 mil Super-Orthosil laminations delivers

	HIGH TAP	MID TAP	LOW TAP	Weight	AC Mains Input 60 Hz	AC Mains Input 50 Hz
NO LOAD VOLTAGE	3350 VDC	3100 VDC	2850 VDC	66 lb. (27 kg.)	230 240 250 VAC 19 A	220 230 240 VAC 20 A
FULL LOAD VOLTAGE ◊	3000 VDC	2750 VDC	2500 VDC			
CURRENT 100% DUTY	1.0 A	1.1 A	1.2 A			
CURRENT 60% DUTY	1.3 A	1.4 A	1.5 A			

Model PS-71D

The PS-71D is designed to power a single 3CX800A7 or 3CPX800A7 pulse rated electron tube amplifier. This model can also power a 2-tube Lunar-Link amplifier at reduced capacity. In addition to the three primary transformer taps, this model includes three secondary taps to accommodate all types of operation. A 1.7KVA rated power transformer, constructed with 14 mil grain oriented high silicon steel laminations is used to provide reliable service. A 37uF filter capacitor bank minimizes ripple at full output.

	HIGH TAP	MID TAP	LOW TAP	Weight	AC Mains Input 50/60 Hz
NO LOAD VOLTAGE	3350 VDC	3050 VDC	2600 VDC	48 lb. (20 kg.)	120 240 VAC 15/7.5 A
FULL LOAD VOLTAGE ◊	3000 VDC	2750 VDC	2300 VDC		
CURRENT 100% DUTY	0.5 A	0.6 A	0.7 A		
CURRENT 60% DUTY	0.6 A	0.7 A	0.8 A		

Model PS-72 (Standard model supplied with all Linear amplifier packages)

The PS-72 is designed to power a pair of 3CX800A7 electron tubes in a Lunar-Link Series LA-z2 amplifier. This model features a single transformer secondary tap and three primary taps. A 2.5KVA transformer, constructed with 14 mil grain oriented high silicon steel laminations is used to provide excellent dynamic regulation under varying loads. A 56uf capacitor bank provides low output ripple resulting in low IMD SSB voice operation.

	SINGLE TAP	Weight	AC Mains Input 60 Hz	AC Mains Input 50 Hz
NO LOAD VOLTAGE	2700 VDC	62 lb. (25 kg.)	230 240 250 VAC 17 A	220 230 240 VAC 18 A
FULL LOAD VOLTAGE ◊	2350 VDC			
CURRENT 100% DUTY	1.0 A			
CURRENT 60% DUTY	1.3 A			

For more information or to place an order, please contact us at:



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 The information and specifications contained in this data sheet may change without prior notice. See our website for the latest information.