

Features

- Super low noise DC voltage output
- Remarkable isolation
- High input regulation / extreme input noise rejection
- High load regulation / super low output impedance
- Extruded aluminum enclosure, anodized natural silver & black
- High glossy black or silver acrylic front and backplate
- Cooling by free air convection
- Gold plated and Swiss made 5 poles female XLR receptacle for DC output allows "Star-quad" wiring and flexible DC cable selection

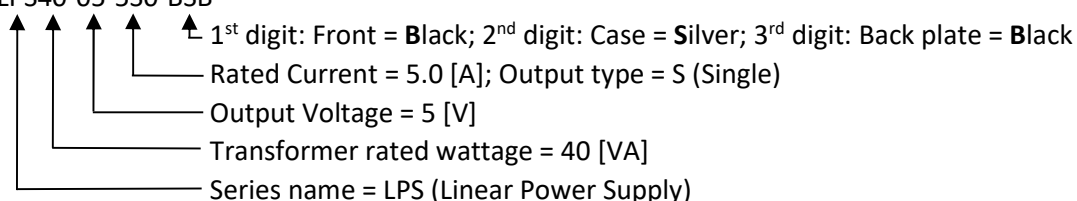
Applications (powering of)

- Audio components: streamer, DAC, phono, headphone amplifier, PC USB & LAN card
- IT equipment: mini-PC (Raspberry), router, switch, access point, NAS
- Test and measurement systems
- Anything requires very clean DC voltage source

Description

The LPS40 fully linear power supply is equipped with 40VA safety isolating PCB mounted transformers guarantee high isolation between primer and seconder windings. RC snubber and Schottky diodes ensure clean rectification for the high reliability aluminum electrolytic capacitor bank. The unique push-pull transistor output stage is controlled by a low noise operational amplifier that works with minimal noise gain and from post filtered precision bandgap references. The perfect input noise rejection and very low output resistance relies on the bootstrapped voltage regulator architecture. On the bottom side of the improved FR4 printed circuits board (PCB) small surface mounted components (SMD) and on top side bigger through hole components (THD) are combined for optimal layout and minimal trace length.

Model encoding example: LPS40-05-5S0-BSB



SPECIFICATION								
INPUT	Voltage range	220-240 VAC						
	Frequency	50/60 Hz						
	Fuse	250 mA _T , 20 x 5 mm						
	Connector	IEC C14 inlet						
OUTPUT	Part Number	LPS40-05-4S0	LPS40-06-3S0	LPS40-09-2S5	LPS40-12-2S5	LPS40-15-2S0	LPS40-19-1S5	LPS40-24-1S2
	Nominal Voltage	5 V	6 V	9 V	12 V	15 V	19 V	24 V
	Rated Current	4 A	3 A	2,5 A	2,5 A	2 A	1,5 A	1,2 A
	Protection	No overcurrent and no overvoltage protection						
	Noise	<2 μ V typical @ bandwidth: 20 Hz to 20 kHz						
	Initial accuracy	<1% typical, 2% max						
	Temperature coefficient	<1 mV/C°						
	Line regulation	<-100 dB(V/V) @ 1 kHz						
	Load regulation	<-40 dB(V/A) @ 1 kHz						
	Connector type	Neutrik NC5FAH 5 pole XLR female, gold plated contact						
	Connector pinout	(+) : Pin1 & Pin3; (-) : Pin2 & Pin4; Not connected: Pin5; PE: Pin6						
ENVIRONMENT	Working temperature	-10 C° to +40 C°						
	Working Humidity	20 to 90% RH, non-condensing						
OTHERS	Indicator	RGB LED, color and intensity adjustable in 3 steps by internal DIP switches						
	Working principle	Isolation transformer, Schottky rectifier, bootstrapped series regulator						
	Dimension	110 x 83 x 166 mm [Width x Height x Depth] (with foots)						
	Weight	1.850 grams						

