

Features

- Super low noise DC voltage outputs
- Independent multi-channel voltage rail
- Power ON & Power OK signal
- High input regulation and high load regulation
- Mechanical compatible with Streacom FC-10 passive case
- ATX compatible connector pin assignment
- Very low standby power consumption

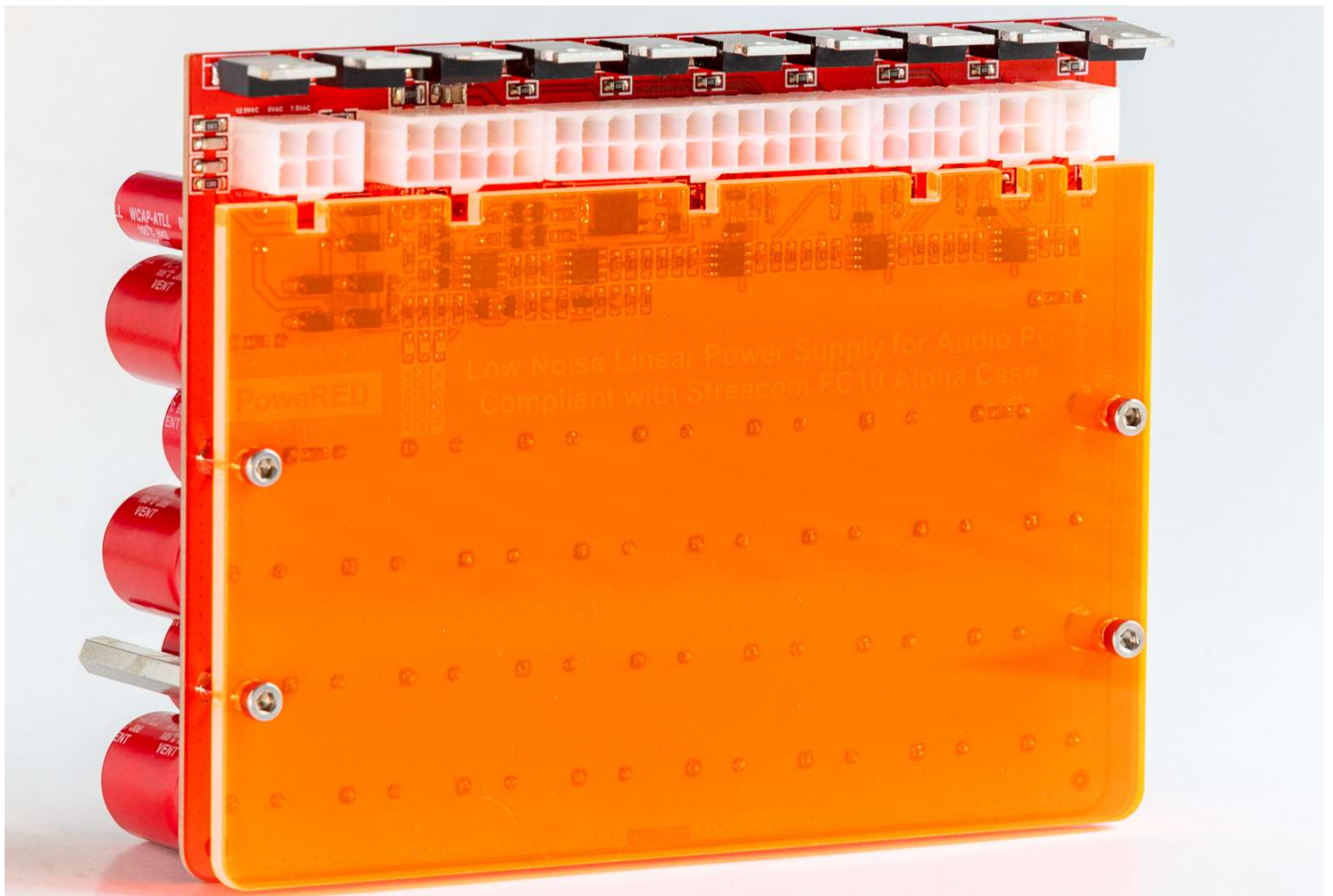
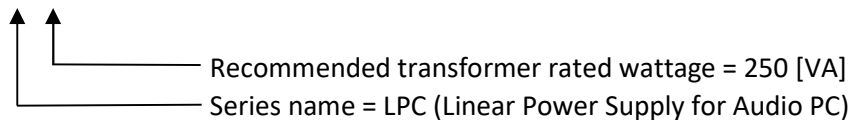
Applications

- Control & Audio PC
- Recording PC in Studio

Description

LPC250-RED true linear power supply designed for audio PC. Mechanically fully compatible with Streacom FC-10 passive cooling case. The 250VA impregnated toroidal core transformer with multiple secondary windings guarantees high isolation between primer and seconder windings thanks to the shielding windings. The RC snubber and Schottky diodes ensure clean rectification for the high reliability aluminum electrolytic capacitor bank. The MOSFET output stages capable for 20A peak are controlled by a low noise operational amplifier. A precision bandgap reference ensures high accuracy. On the bottom side of the improved FR4 and 4 layers printed circuit board (PCB) more than 120.000 μF total capacitance of a long-life aluminum electrolytic capacitors ensure smooth DC and high peak current for the regulators.

Model encoding example: LPC250-RED



SPECIFICATION

INPUT	Voltage range	220-240 VAC / 2 x 12.5 V + 2 x 7.5V						
	Frequency	50/60 Hz						
	Fuse	3.15 AT, 20 x 5 mm						
	Connector	IEC C14 inlet						
OUTPUT	Part Number	LPC250						
	Nominal Voltages	+12 V	+5 V	+3.3 V	+5 VSB	-12 V	+12 V	+5 V
	Rated Currents	6 A	6 A	5 A	2 A	0,5 A	2 A	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 (5% max @ +5 VSB and -12 V)						
	Temperature coefficient	<1 mV/C°						
	Line regulation	<-80 dB(V/V) @ 1 kHz						
	Load regulation	<-40 dB(V/A) @ 1 kHz						
	Connector type	Molex Mini-Fit #4.2mm						
	Connector pinouts	see cableassy drawings						
ENVIRONMENT	Working temperature	-10 C° to +40 C°						
	Working Humidity	20 to 90% RH, non-condensing						
OTHERS	Indicator	3pcs Red LEDs, Standby + Power ON + Power OK						
	Working principle	Toroidal transformer, Schottky rectifier, Power MOSFET + opamp regulator						
	Dimension	115 x 55 x 150 mm [Width x Height x Depth] (with 35mm spacers)						
	Weight	490 grams (without transformer)						

