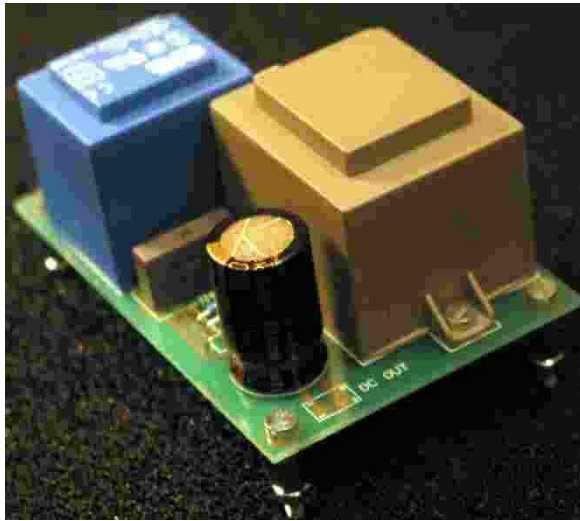


TENT XO-Supply

a new power supply for XO low jitter clock products



Introduction

This newly developed power supply will again upgrade your CD player or DAC, when already equipped with either XO2/3 or XO DAC. It will enhance resolution to an even higher level, and improve rhythm and pace while the sonical texture gets purer as well.

XO-Supply separately powers XO2/3 or XO DAC, in order to minimise the influence of any noise entering the XO module.

Background

Inside CD players and DACs, many circuits are active. In general one power supply transformer feeds them all, traditionally additional voltage regulators are used.

Still, these circuits, by layout or design, may affect the power supply. It is therefore the best to apply full galvanic isolation by means of a separate transformer

XO-Supply is a stand-alone module, intended to be retrofitted in your CD player or DAC, to separately supply XO2, XO3 or XO DAC modules

Principle of operation

XO-Supply contains a choke input power supply and benefits from all advantages of traditional LC filtering. This technique is well known for a long time and applied on a large scale in tube amplifiers. The main advantage is the pure sine wave loading of the transformer, hence large current peaks are avoided. This results in virtual absence of any RF noise components in the output voltage

XO-Supply is equipped with a low leakage power supply transformer. It uses Schotky Barrier rectification and a proprietary made swinging choke (Smooispoel, yes they are Dutch made) for the filtering. Then follows a top range Black Gate smoothing capacitor.

The result is a passively regulated supply, with a very clean output voltage that only contains a small ripple voltage in the low end of the spectrum.

Available versions

XO supply std: Standard Black Gate
XO supply NX: NX type Black Gate

Pricing

XO-Supply retail price is set at € 99,- This includes VAT but excludes shipment and payment cost. The NX version costs € 107,-

Build quality & warrantee

XO-Supply sits on a single sided PCB and comes fully assembled and tested with a 5-year full warrantee.

Orders and information

Send an E-mail with your questions or orders to:
XO.info@iae.nl

Electrical data

Input 110/115V or 220/230Vac, 50 or 60 Hz
Output 16Vdc under 50 mA load conditions

Mechanical data

Size 60*90*45 mm³ (including standoffs)
Weight Approximately 350 gram
Mounting: Using 10 mm standoffs (M3 threaded)

Mounting instructions

General

Make sure you work in a safe environment, with sufficient space.

Safety

Make sure the CD player or DAC you are working with, is disconnected from the mains. Make sure you control what you are doing.

ESD

XO-Supply by itself is insensitive to any discharge you can generate. However, inside the player or DAC, many sensitive devices are present. Take

Tools

A 3 mm drill is needed to drill holes to mount the PCB. Furthermore some small tools like screwdrivers and a pair of tweezers may help, alongside a soldering iron (a.k.a.s slaughtering iron among some DIY).