

NoDrain

Negative to +5V Eurorack supply adapter

Overview

The Klavis NoDrain adapter is intended for Eurorack cases lacking a dedicated 5 volts supply. It draws its power from the negative 12 volts rail.

It provides up to one amp of 5V while consuming only half as much current on the -12V rail. In very hot conditions (e.g. tightly closed case in a hot climate), there might be less current available due to the thermal protection of the circuit.

A high-efficiency switched-supply circuit does the conversion at megahertz frequencies, way beyond the audible range.

The adapter is protected against various possible troubles and mistakes.

More information is available on www.klavis.com

Do not use the NoDrain adapter if:

- There is already some 5V available in your case.
You must first disable/disconnect the existing 5V source.
- The negative 12V rail is already supplying its maximum current to your case.
- You intend drawing more than 1 amp of 5V supply (less in case of hot conditions).
You may connect separate NoDrain adapters on multiple busboards as long as the various 5V supplies are not tied together.

Installation

Lack of attention may result in damage to your equipment !

1. If you do not feel comfortable with the installation, don't attempt doing it yourself
2. Disconnect the mains supply from your case
3. Plug the NoDrain adapter on the busboard of your case, preferably in a connector close to the cables feeding the busboard
4. Take care of the orientation: the stripe and/or -12 (minus 12) indications between the busboard and the adapter should match
5. Be extra careful to not insert the adapter misaligned by one pin with the busboard connector! This is a frequently overlooked mistake.
6. Re-check everything before applying the mains supply
7. Be ready to promptly disconnect the mains in case something goes wrong