

- Type 4 – green with 5,5/2,5mm centre positive DC-plug x2
- Type 5 – black with 3,5mm tip positive jack-plug x1
- Type 6 – black with 9V battery clip x1
- Type 1 #1035 – Split Flex (powers two pedals of one outlet) x1
- Type 1 #1533 – 3-way daisy chain (powers 3 pedals of one outlet) x1
- Adapter #8800 – Parallel adapter Flex (adds currents) x1
- Adapter #2200 – Series adapter Flex (adds voltages) x1

Total of 17 Flex cables is included.

Mounting hardware

We've included all the needed hardware to mount the power supply on top or underneath a Pedaltrain or Temple Audio pedalboard. You can of course also attach it to boards of other brands. Look on CIOKS web site for more information and mounting guides.

More Flex cables

To power one pedal using one outlet you simply use a single suitable standard Flex cable and that's it. In case the plug type or length you need is not included with your unit there's a big selection of standard Flex cables to choose from and to be ordered separately. In case of an odd voltage or current requirement you might need one of the Special Flex cables available. Please read more about these and how to use them on CIOKS web site. They really open up for even more versatility and flexibility in terms of what you can power with your unit.

Powering different pedal types

This issue is different for every individual rig, therefore please e-mail your specific questions regarding powering your pedals using CIOKS power supplies directly to support@cioks.com.

Technical specifications

AC mains input: 110-120VAC 60Hz or 220-240VAC 50Hz, max. 50W

Outputs:

- Outlet 1-2: 9V DC / 100mA each, isolated
- Outlet 3-4: 9 or 12V DC / 100mA each, isolated
- Outlet 5-6: 9 or 12V DC / 200mA each, isolated
- Outlet 7: 9 or 12V DC / 400mA, isolated
- Outlet 8-9: 9V DC / 400mA each, isolated
- Outlet 10: 9-24V DC adjustable / 800-300mA (max 7,2W), isolated

Size: 217x88x42mm (excl. rubber feet)
Weight: 1,2kg

Warranty period: 5 years worldwide

What's in the box?

- CIOKS DC10 link power supply
- mains power cord
- 17 Flex cables
- pedalboard mounting hardware (4 stand-offs, 4 screws and a hex key)
- manual, product sheet (drill template) and Flex guide

CIOKS DC10 link

Power Supply for Effect Pedals

User's Manual

reversion 0.1

Introduction

Since year 1991 the Danish company CIOKS has been providing guitar and bass players with reliable power supplies dedicated for powering effect pedals. During this period of more than 25 years we've launched 19 products and now the time has come for the 20th power supply the DC10 link. It's the most advanced unit we've ever made so far.

Features

- 10 isolated and well filtered outlets
- total output current of max. 2.800mA
- toroidal transformer with additional shield
- adjustable 9-24V DC outlet with mA-meter and very high current capability
- three high current outlets each 400mA
- two medium current outlets each 200mA
- four 100mA outlets for standard pedals
- short circuit protection of all outlets
- advanced LED monitoring of each outlet
- 120 or 230V mains voltage operation
- courtesy AC mains outlet
- CIOKS unique mains link feature
- 17 Flex cables included
- compatible with Pedaltrain and Temple Audio pedalboards
- all needed pedalboard mounting hardware included

Overview

Front

On the front of the enclosure you'll find 10 outlets of the power supply as RCA sockets which all are centre positive. Correct polarity for the pedal is achieved by using the right Flex cable.

Top

CIOKS logo has a red LED placed in the middle of the letter 'O'. Right after the power supply is turned on, it states your power supply's serial number by blinking its digits. Then it goes into the temperature depending 'breathing mode'.

Also on top of the enclosure you see the output voltage and max. current rating of each outlet printed just above the outlet sockets. The top figure is the voltage and the DC in the middle line tells you it's a direct current outlet. Outlets 3-7 have two possible voltage settings 9 or 12V and both values are stated as 9/12 and the last outlet 10 has adjustable voltage in the range 9-24V. The bottom figure states the maximum current capability of each outlet in mA. Voltage of outlets 3-7 is set with the 5-position settings switch situated above outlet 5. The last outlet's voltage is adjusted with the small black knob. To turn it you can use a small screwdriver or simply your guitar pick.

The status of each isolated output is shown by a LED indicator also situated on top of the enclosure just above the voltage figure. Operation of this advanced and unique monitoring feature is described in detail later on.

Left side

On the left side of the enclosure you'll find the AC power input connector, which is a C14 type according to the IEC 60320 standard. On the same side as the AC mains input you'll find the mains voltage selector switch and fuse compartment. Mains voltage selector switch should be used for setting the correct mains voltage 115 or 230V. The 115V setting gives you 110-120V operating range and the 230V setting 220-240V range.

The fuse is the only part, which may be replaced by the user. In case it's blown, replace with a 5x20mm, T 630mA (slow blow/time lag) type. In the fuse compartment you'll also find one extra replacement fuse.

Right side

On the right side you'll find the AC mains courtesy outlet connector, which is a C13 type according to the IEC 60320 standard. The current drawn from this outlet should not exceed 6A.

Bottom

The four detachable rubber feet are situated on the bottom of the enclosure. On this same surface you'll find 7 holes with metric M4 threads, which should be used for easy mounting of the power supply to a pedalboard. Preferably use the included screws and do not use screws, which would go further than 5mm inside the unit. Have a look at the mounting guide on CIOKS web site.

Getting started

First make sure that the voltage value chosen on the voltage selector switch matches the mains voltage in your wall socket. Connect the mains power cord to the power supply and mains. Using the right Flex cable types connect your pedals to the outlets of power supply making sure that the voltage and current is correct for each pedal.

Advanced LED Monitoring feature

Each isolated outlet has its individual LED status indicator. The indicator is fully lit in normal operation of a particular outlet. Its light gets dim when you operate just on the edge of the current limit. If you overload or short circuit an outlet, the respective LED indicator turns off. If you overload outlet 10 the LED indicator will be blinking and turns off at short circuit.

The LED indicators also show you the voltage set by the settings switch. If you select 12V instead of the default 9V on one of the outlets 3-7, its respective LED indicator will be lit with higher intensity than the other indicators.

All indicators take into account the actual level of mains voltage when monitoring a possible overload. The current limits for each outlet or section of the power supply are specified at nominal level of the mains voltage. In Europe it's 230V and 120V in e.g. United States. If the mains voltage is higher than nominal, you can draw more current from the power supply than stated in the specifications. This would never be a problem. A more common situation though, is when the mains voltage is lower than nominal. In such a case maximum current ratings for each outlet or section might be diminished.

The advanced LED monitoring of each isolated outlet will alert you in case of an overload or short circuit. If such a situation happens you know where to look to solve the problem.

A glance at the LED status indicators and you have proof of 100% clean power to your pedals.

The adjustable outlet 10 and its current meter (mA-meter)

Voltage of outlet 10 can be set with the black knob just above its LED status indicator. While adjusting the voltage is displayed on the mA/V scale as a dot in the voltage mode. In the table below you can see how different voltage settings are displayed in the voltage mode of the scale.

9,2-9,9V	11,5-12,9V	14,5-15,9V	17,5-18,9V	22,0-23,4V	23,5-24,9V
mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ○ 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ● 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ○ 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ● 15 200 ○ 12 100 ○ 9	mA V 500 ● 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ○ 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ○ 9

When you stop adjusting the voltage the readout on mA/V scale automatically switches to current mode and displays the current drawn in from the outlet 10 as a bar in mA. The following table shows how different current values are displayed on the scale.

0-14mA	15-64mA	64-114mA	215-264mA	515-564mA	665-714mA
mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ○ 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ● 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ● 9	mA V 500 ○ 24 ○ 21 400 ○ 18 ○ 15 200 ● 12 100 ● 9	mA V 500 ● 24 ○ 21 400 ○ 18 ○ 15 200 ○ 12 100 ● 9	mA V 500 ● 24 ○ 21 400 ○ 18 ○ 15 200 ● 12 100 ● 9

The nominal max output power of outlet 10 is 7,2W. Outlet 10 is overloaded not when a certain current limit is reached but when the output power exceeds approx. 8W. In 9V setting you can draw 800mA, at 12V the max. is 600mA and at 24V the current limit is 300mA. When you overload outlet 10 the big status LED starts blinking but the output will operate normally in this overload mode. First when you overload heavily and the output power exceeds approx. 9W outlet 10 will go into the shut-down mode and will turn on and off periodically until you remove the excessive load.

Included accessories

Flex cables

CIOKS offers a great selection of different Flex cable types for connecting your pedals to the power supply. The following list shows the included Flex cables with your unit:

- Type 1 – black with 5,5/2,1mm centre negative DC-plug x8
- Type 2 – red with 5,5/2,1mm centre positive DC-plug x1