

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 7 – blue with 2 pin DIN plug	x1
Split Flex type 1 – black with two 5,5/2,1mm centre negative DC-plugs	
Stack Flex type 1 – black with 5,5/2,1mm centre negative DC-plug	

CIOKS AC10

Power Supply for Effect Pedals

User's Manual
reversion 1.2 – March 2017

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.

Not included accessories

More Flex cables and Booster Flex

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 order them 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 or in the included Flex guide. 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 input: 110-120VAC 60Hz or 220-240VAC 50Hz, max. 40W

Outputs:

Outlet 1-2:	9V DC / 100mA each, isolated
Outlet 3-4:	9 or 12V DC / 200mA each, isolated
Outlet 5-6:	9, 12 or 15V DC / 600mA, outlets 5 and 6 share the same GND *
Outlet 7-8:	9 or 12V AC / 800mA, outlets 7 and 8 share the same GND *
Outlet 9-10:	9, 12 or 16V AC / 800mA, max. 600mA in 16V setting, outlets 9 and 10 share the same GND

* only one of these two sections can be used

Size: 158x98x35mm (excl. rubber feet)

Weight: 1,1kg

Warranty period: 5 years worldwide

What's in the box?

- CIOKS AC10 power supply
- mains power cord
- 17 Flex cables
- pedalboard mounting HW (mounting bracket, screws, washers, stand-off and hex key)
- manual, product sheet (drill guide) and Flex guide

Introduction

Since 1991 the Danish company CIOKS has been providing guitar and bass players with reliable power supplies dedicated for effect pedals. After our very first product CIOKS Baby power supply was out in 1991, the Big John and Double Jack were launched in year 1995. After a long break three more units were introduced in 2007 forming our Standard range of dedicated power supplies for effect pedals. The big breakthrough came in year 2010 where we've released the first products of the professional range with the DC10 as the most popular product. CIOKS became global with distributors and dealers worldwide. CIOKS AC10 is also a part of this professional range and quite versatile providing both DC and AC.

- 10 outlets configured in 6 isolated sections with max 1.200mA DC and 800mA AC
- 2 powerful AC sections with 800mA each and voltages 9, 12 and 16V AC available
- one AC section convertible into a 600mA DC section able to power a high current pedal like Strymon, Eventide, Kingsley or tc electronic Nova or Helicon pedal
- offers DC voltages 9, 12 and 15V and also 18 and 24V with Stack Flex
- 15V option for a Radial Tonebone pedal or another Radial 15V box
- toroidal transformer with additional magnetic field shielding
- short circuit protection of all outlets
- advanced LED monitoring of each section
- compatible with Pedaltrain and Temple Audio pedalboards, mounting hardware incl.

Overview

Front

On the front of the enclosure you'll find 10 outlets of the power supply as RCA sockets where all six DC outlets are centre positive. Correct polarity for a pedal using DC is achieved by using the right Flex cable. With AC polarity doesn't matter.

Top

CIOKS logo in the middle 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 the digits. Then it goes into the temperature depending 'breathing mode' or just stays turned on depending on the settings.

On top of the enclosure you see the output voltage and max. current rating of each outlet printed just above the outlet sockets. The first number is the voltage. The middle line tells you whether it's a DC (direct current) or AC (alternate current) outlet. The bottom figure states the maximum current capability of each outlet in mA. Outlets with two possible voltage settings have both values stated ex. 9/12 or 12/15. Isolated sections with two outlets sharing the same GND have one common figure for maximum current.

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

Back

In the space on the back of the enclosure you'll find the AC power input socket, mains voltage selector switch, fuse and the settings DIP switch.

The AC power input socket is called C-5 and is the same type as used for many laptop power supplies.

Mains voltage selector switch should be used for setting the correct mains voltage 115 or 230V. The Japanese version is made only for a 100V nominal mains voltage and has no mains voltage selector switch.

The fuse is the only part which can be replaced by the user. In case it's blown, replace with a 5x20mm, T 500mA (slow blow/time lag) type.

The DIP switch should be used for changing the operation settings of the power supply.

Bottom

Here you'll find you'll find a table showing the different settings of the power supply, which you select using the settings switch on the back. Also here are the four detachable rubber feet and 6 holes with metric M4 threads, which should be used for easy mounting of the power supply to a pedalboard. 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 every pedal. Rock'n'Roll..! ...or JaZz!

Settings

To change the settings of the power supply you use the DIP switch on the back of the enclosure. In the table below you can see the different settings:

No.	Function	Switch OFF (down)	Switch ON (up)
1	LED mode	Breathing	Constant
2	Outlet 3	9V DC	12V DC
3	Outlet 4	9V DC	12V DC
4	Outlet 6	12V DC	15V DC
5	DC or AC	DC mode	AC mode
6	Outlet 10	12V AC	16V AC

LED mode

The LED in the middle of letter 'O' in CIOKS logo can operate in either 'breathing mode' or 'constant' mode. You select the mode with switch knob no. 1.

Voltage settings

Voltage of outlets 3 and 4 can individually be set to 9 or 12V with switch knobs no. 2 and 3, where the default value is 9V. Voltage of outlet 6 can be set to either 12 or 15V, where 12V is default. The last AC outlet has 12V (default) and 16V option which is set by switch knob no. 6.

DC or AC operation of section 5 (outlets 5-8)

The power supply's fifth isolated section operates in DC mode with outlets 5 and 6 active in the default setting of switch knob no. 5. The red LED indicator above outlet 6 is lit in normal operation and you have 600mA available at voltages 9, 12 or 15V DC on outlets 5 and 6. In ON position of knob no. 5 you activate the AC section. The yellow LED indicator above outlet 8 is lit and you have another 800mA AC available at voltages 9 or 12V AC on outlets 7 and 8.

Features

Advanced LED Monitoring

Each isolated outlet or section has its individual LED status indicator. The indicator is lit in normal operation. 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.

The LED indicators of outlets 3, 4, 6 and 10 with selectable output voltages, also show you the voltage chosen with the settings switch. In case a higher voltage than the default setting is selected for a given outlet, its respective LED indicator will be lit with higher intensity than the other indicators. Default setting for outlets 3 and 4 is 9V and for outlets 6 and 10 it's 12V.

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.

Breathing 'O' LED

The LED in the letter 'O' has two main functions. Just after the power supply is connected to mains and starts to operate, the LED states the serial number of your unit by blinking each digit if the number. Then depending on the setting it either starts to 'breathe' or stays lit showing that the power is on. The 'breathing' frequency is dependent on the temperature inside the power supply and with higher temperature the 'breathing' gets more frequent.

Included accessories

Flex cables

CIOKS offers a great selection of different Flex cable types for connecting your pedals to the power supply. Below you see a list of 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