SOL

Power Supply for Effect Pedals

User's Manual

Version 1.0.UG2 – October 2024

Introduction

Since 1991 the Danish company CIOKS has been providing guitar and bass players with reliable and advanced power supplies dedicated for effect pedals. CIOKS SOL power supply is part of our Future Power Generation range of professional power supplies and provides 5 isolated high current outlets for pedals.

Features

- Slim 1-inch profile (25,4mm) and low weight of only 0,4kg (0.9lb)
- 2-stage switch-mode power supply topology
- Ultra-low noise achieved by multi-stage filtering and innovative regulation feedback system
- 5 isolated DC-outlets, 6W each (660mA at 9V on each outlet)
- 4 selectable voltages on each outlet (9, 12, 15 or 18V)
- Individual status LED on each outlet and global status LED
- Total maximum output power of 30W
- Use anywhere in the world, universal mains input voltage 100-240V AC
- Mounting hardware for Pedaltrain and Temple Audio boards is included
- Compatible with CIOKS GRIP ver. 2.0 for drill-free Pedaltrain mounting
- 9 Flex cables included
- Designed in Denmark, assembled in Poland

5-year worldwide warranty

IMPORTANT SAFETY INFORMATION

Read all instructions in the user manual carefully before using SOL power supply

CAUTION, RISK OF ELECTRIC SHOCK

- **High Voltage Warning:**
  There are dangerous voltages present within the power supply during operation whenever it is connected to the AC mains power.
- Do not remove any part of enclosure, as you may be exposed to hazardous voltage.
- This product is not customer serviceable. In case of any internal defect, the unit must be returned only to CIOKS service department for inspection and repair.
- Do not use mounting screws which penetrate the unit more than 5mm as longer screws may impair safety isolation.
- Although output voltages of each individual output are safe for user, they may be combined in series using serial adapters to get higher hazardous voltage. Do not use combinations giving more than 60V.

CAUTION, RISK OF DANGER

This information is intended to help the user operate the CIOKS power supply unit safely and reduce risk of unintended situations.

- Do not expose this unit to rain or moisture.
- Do not install this unit near any heat sources.
- Be aware that during operation at heavy load and high ambient temperatures, the external surfaces of unit enclosure may get very warm. This is safe for unit itself but may be considered too hot for the user to touch, so please use caution when handling the unit.
- Do not remove/alter the power cord safety ground feature. Plug in to a grounded (earthed) outlet only. Use only original power cord that comes with power supply.
- Do not operate damaged equipment as the safety protection features built into this device may have been impaired.
- Use only accessories provided by CIOKS.
- Before connecting a pedal ensure that the polarity and output voltage matches what the pedal requires. If you are unsure of this, please contact manufacturer or CIOKS support. Never change output voltage while pedal is operating.
- This power supply is not intended to be used in battery charging applications so never use it to power devices containing batteries that are being charged during normal operation. If you are not sure whether you are dealing with such a product, please contact the manufacturer or CIOKS technical support.

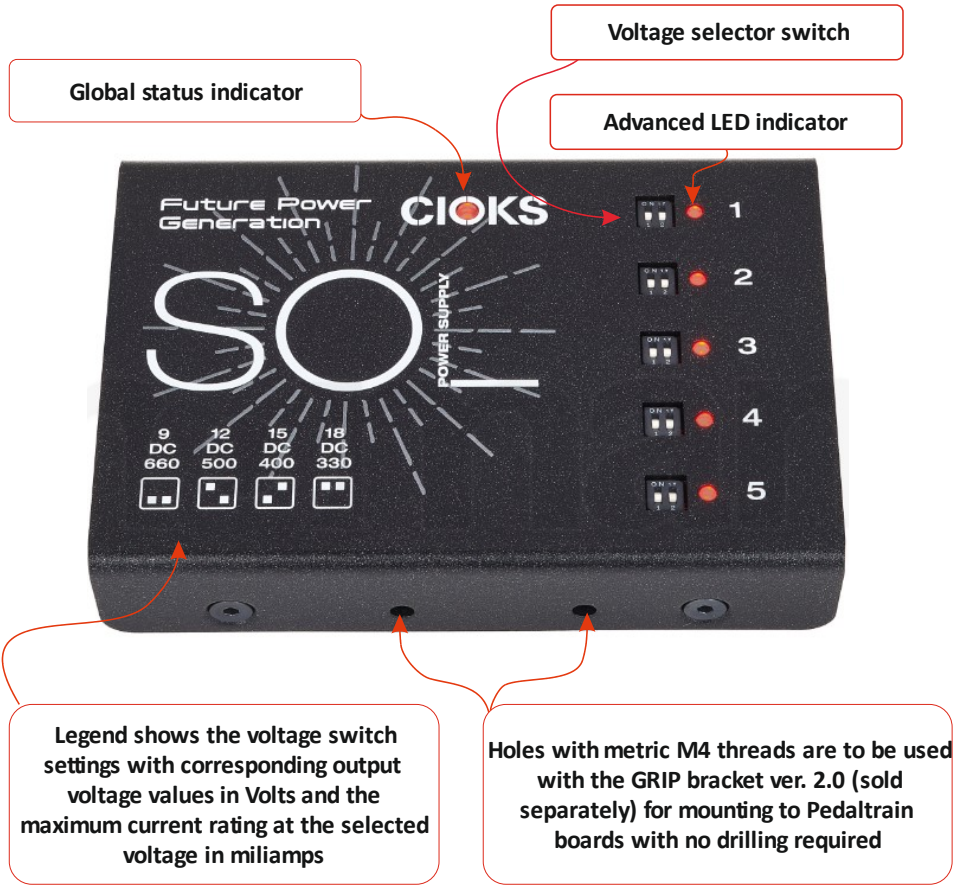
Waste Electrical & Electronic Equipment (WEEE) Compliant

This product complies with the European Union WEEE Directive rules on treating waste electrical and electronic equipment. It must not be released into the environment or thrown away as domestic waste. Please contact your local authority for details of your nearest approved recycling facility.

Getting started
Connect the mains power cord to the power supply and AC mains. Set the output voltage for a given outlet to either 9, 12, 15 or 18V depending on the needs of the particular pedal to be powered. Make sure to use the correct Flex cable type when connecting your pedal to the outlet. Repeat this with your remaining pedals.

Advanced LED Monitoring feature
Each isolated outlet has its individual LED status indicator. The indicator is lit in normal operation. The LED light gets dim when you operate just on the higher edge of the current mA limit for the voltage you have chosen on the given outlet. If you overload or short circuit an outlet, the respective LED indicator turns off. The light intensity of the status LED will be higher when the output voltage is set to a higher value than 9V being 12, 15 or 18V.

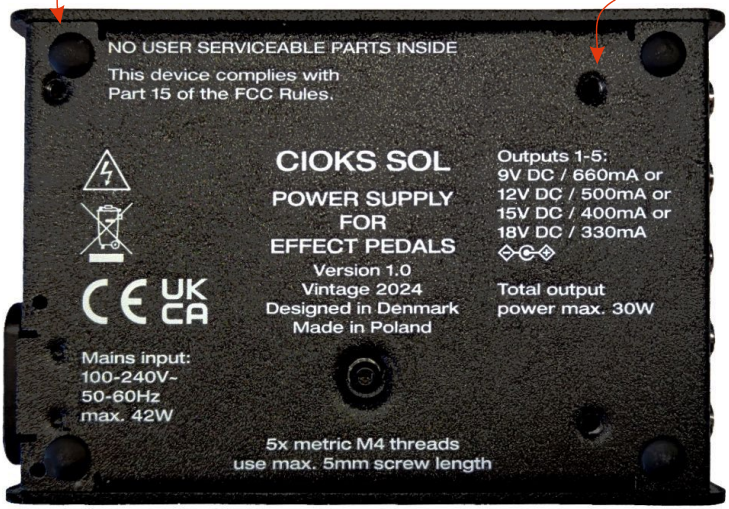
Global status indicator
If the SOL operates within its total maximum output power limit and everything functions normally the red LED inside the letter O in CIOKS logo will be lit. If the power supply is globally overloaded or overheated this global status indicator will turn off. This will only happen if the SOL is not ventilated sufficiently and the temperature inside the power supply gets too high or if most of all five outlets are overloaded. The operation of the SOL is maintained and your pedals are still powered. The show must go on, but you are just about to lose it. If the overload is severe the SOL goes into hiccup mode and both the CIOKS LED and all five status LEDs will be pulsing. The power to your pedals is cut off. The SOL in hiccup mode will not damage your pedals.


Voltage selector switch
Global status indicator
Advanced LED indicator
Future Power Generation
CIOKS
SOLO
POWER SUPPLY
9 DC 660
12 DC 500
15 DC 400
18 DC 330
1
2
3
4
5
Legend shows the voltage switch settings with corresponding output voltage values in Volts and the maximum current rating at the selected voltage in miliamps
Holes with metric M4 threads are to be used with the GRIP bracket ver. 2.0 (sold separately) for mounting to Pedaltrain boards with no drilling required

Hole with metric M4 thread for mounting of the power supply to a pedalboard (x3)

CAUTION! Use only screws which penetrate the unit 5 milimeters at maximum

Detachable rubber feet (x4)



IEC Power Inlet
100-240V~ mains input

Isolated PEDAL OUTLETS (x5)
9/12/15/18V DC center positive

When connecting the SOL always make sure that both the power cord and the socket outlet are freely accessible so that the unit can be disconnected very easily.

Pedalboard mounting

Pedaltrain
For CIOKS SOL we recommend three ways of mounting to a Pedaltrain pedalboard. The most solid way is using the drill template to drill two diagonally positioned ø4,5 or ø5,0mm holes in the pedalboard and fasten the SOL to it with the two included screws. An easy alternative way is to use the GRIP bracket where no drilling is needed. Due to the SOLs extremely flat profile and low weight you can use Dual-Lock tape or industrial Velcro to fasten it below any type of Pedaltrain pedalboard.

Temple Audio
The three threaded holes in the bottom of CIOKS SOL are aligned with the grid of the Templeboard and allow for very easy mounting on top or below any Temple Audio pedalboard with the included 2 screws. We recommend using the two holes positioned diagonally. If you want to make a distance between the board's surface and the SOL to allow space for the Temple Audio finger screws you should get a set of three 8mm hex stand-offs with matching screws (order no. 3HEX) and then use these with all three threaded holes in the bottom of the SOL.

Other pedalboard types
For other types of pedalboards we recommend using one of the four mounting methods described in the Pedaltrain or Temple Audio sections above or by other means using some of the five threaded M4 holes and metric M4 screws. Remember not to penetrate the SOL by more than 5mm with the screws used.

Included accessories

Flex cables
CIOKS offers a wide selection of different Flex cable types for connection your pedals to the power supply. Below you see a list of the included Flex cables with your unit:

- Standard Flex type 1 – black with 5,5/2,1mm centre negative DC plug x5
- Standard Flex type 2 – red with 5,5/2,1mm centre positive DC plug x1
- Standard Flex type 4 – green with 5,5/2,5mm centre positive DC plug x1
- Split Flex type 1 – black with two 5,5/2,1mm centre negative DC plugs x1
- 3-way daisy chain Flex type 1 – black with three 5,5/2,1mm centre negative DC plugs x1

Split Flex should be used if you would like to power two pedals with the same voltage using only one outlet. In the same manner you should use the 3-way daisy chain if you wish to power three pedals of one outlet. For further information about Flex cables please have a look at the included Flex cable selection guide or visit CIOKS web site.

Mounting hardware
We have included all the needed mounting hardware to mount the power supply on top or underneath a Pedaltrain or a Temple Audio pedalboard. You can of course also attach it to other types of pedalboards.

Not included accessories

The GRIP
This patent pending bracket can be purchased separately and is an easy and drill-free way to mount CIOKS SOL below any Pedaltrain board except the smallest Nano model.

Powering different pedal types
Each individual rig is different so if you have any questions about using the SOL, please e-mail your detailed questions including the power requirements of your specific pedals directly to support@cioks.com.

Technical specifications

AC mains input:	100-240VAC, 50-60Hz, max. 42W
Outlets 1-5:	9V DC / 660mA or 12V DC / 500mA or 15V DC / 400mA or 18V DC / 330mA each
Total maximum output power:	30W
Output voltage accuracy:	-0 +3%
Output current limit:	106 – 120% of rated output current
Operating temperature range:	0 – 40°C
Operating relative humidity:	20 – 85%
Max altitude during operation:	2000m

Size: 130 x 88 x 25,4mm (5.2 x 3.5 x 1.0”), excl. rubber feet

Weight: 0,4kg (0.9lb)

Warranty period: 5 years worldwide

What is in the box?

- CIOKS SOL power supply
- Mains power cord
- 9 Flex cables
- Mounting hardware (2 screws and a hex-key)
- Manual
- Product sheet (drill guide)
- Flex guide