

SeventyPWR

Thank you for purchasing SeventyPWR. It is powerful, low noise, highly efficiency and low weight power supply solution for use in large eurorack systems and portable eurorack cases.

You can mount it in to your synth case and not lost HP. SeventyPWR is safe supplied from external DC power brick (18-24V).

Mounting to case:

1. Find ideal place for SeventyPWR and power inlet panel in your case. It is good to put SeventyPWR near power inlet panel.
2. Make cutout for power inlet panel on ergonomic place in case (on side).
3. Screw power inlet panel on his place from outside of the case with attached (or other) screws.
4. Screw SeventyPWR with attached (or other) screws. Use attached spacers between PCB and your case.
5. Cut and blank power inlet wires if necessary. (Blank cca 7mm)
6. Push white lever on + input terminal with small screwdriver and insert blanked red inlet wire to terminal. (Red wire +, White wire -)
7. Push white lever on - input terminal with small screwdriver and insert blanked white inlet wire to terminal.
8. Connect power distribution boards via wires and spring terminals. All output terminals are doubled because high output power of SeventyPWR PSU. Split output wiring to two branches according picture on rear side of this manual. Check polarity +12V, -12V, +5V!
9. Finally, connect powerbrick into barrel connector on power inlet panel and switch power on. All three blue LEDs on SeventyPWR should light. Switch power off and connect modules.

!!! Always if you connect new module or rearrange power connection in your synth please SWITCH POWER OFF to avoid modules or PSU faults!!!

In normal operation mode when the power switch is ON, LEDs have blue lights. LEDs go out when some rail is overload or short.

We recommend Mean well GSM90A19-P1M power brick for one PSU. When your synth is switch off, please disconnect power brick from wall socket. It is ecological and safety solution.



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Trimmers for output voltage adjust

SeventyPWR PSU is factory adjusted with high precision of +12V \pm 10mV and -12V \pm 10mV. There are two trimmers for precise adjusting of output +12V and -12V voltages. For most users **we highly recommend to keep trimmers as default**. For experienced users with electrical and measure skills is possible to adjust output voltage and compensate voltage drop on power wires. Adjusting range is about \pm 250mV.

Specs

Output power:	70W
Outputs:	+12 V / 2500 mA -12 V / 2500 mA +5 V / 2000 A
Input:	19V DC (18V – 24V DC)
Weight:	125g
Dimensions:	131mm x 58mm x 20mm
Protections:	Input reverse polarity protection Output overvoltage Output short circuit – automatic recovery Output over current – automatic recovery All output protections are independent for each rail
Filters:	Dual Input common mode LC filter Independent LC filter for each converter Output decoupling capacitors
Stability:	+/- 1% in range of 0 – 100% load
Efficiency:	90%
Input / Output:	WAGO 256 series - shock proof terminals
Accessories:	Alluminum panel with 5,5 x 2.5 DC input (center positive), power switch and two 25cm wires Screws 2,9 x 13mm 6pcs Spacers 3mm height 4pcs

SeventyPWR wiring example

