

BoardPWR

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

You can mount it in to your synth case and not lost HP. BoardPWR is safe supplied from external DC power brick (16-20V). It is possible to chain more BoardPWRs in one case and feed them from one power brick.

Mounting to case:

1. Find ideal place for BoardPWR and power inlet panel in your case. It is good to put BoardPWR 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 BoardPWR 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 black inlet wire to terminal. (Black 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 board via wires and spring terminals or via 16 pin headers (terminals are better).
9. Finally, connect powerbrick into barrel connector on power inlet panel and switch power on. All three LEDs on BoardPWR 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 GSM60A18-P1J power brick for one PSU.

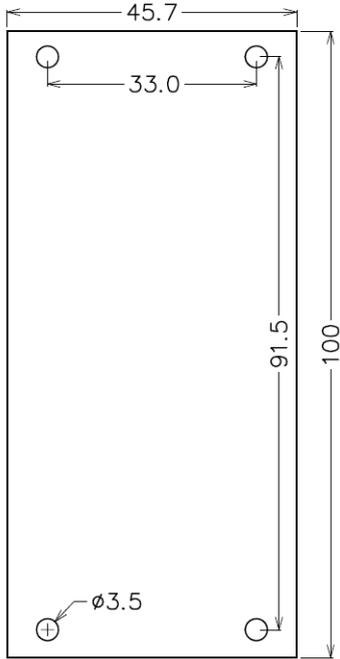
When your synth is switch off, please disconnect power brick from wall socket. It is ecological and safety solution.



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Specs

| | | |
|-------------------|--|---|
| Power | 45W |  <p><i>Position of holes</i></p> |
| Dimensions | 100 x 46mm | |
| Height | 20mm | |
| Weight | 60g | |
| Outputs | +12V / 2A -12V / 1.2A +5V / 1.5A | |
| Output stability | ±1% for 0-100% load | |
| Input | 18V (16V - 20V) | |
| Output Connectors | 2 x 16 pin IDC for flat cable WAGO spring terminals | |
| Input connectors | WAGO spring terminals | |
| Protections | Input overvoltage Input reverse polarity Output overvoltage Output short current – automatic recovery Output over current – automatic recovery All output protections are independent for each rail | |
| Efficiency | 92% | |
| Other | Input common mode LC filter with high efficiency of canceling noise and interference from input connector Additional input filter on each regulator for minimal output noise and interferences Blue LEDs indicate present and drop of output voltage | |
| Accessories | Power inlet panel with Input connector, switch and wires Screw 6 pcs Spacers 4 pcs | |