

INTPSU-12-4 Mini

Power 4 GSM™

Dual Output Open Frame Switching Power Supply
Proven Solution for GSM Control & Alarm Systems
Patent Pending

Unique Features of INTPSU-12-4 Mini Power Supply

INTPSU -12-4 Mini has some unique features not found in other products on the market. Take a look at these.



Optimised for use with GSM-modules

This is a unique commercial Power Supply Unit (PSU), which was designed specifically to meet the power supply requirements for SIMCom's GSM-modules. Most other PSU's have a standard output of 3.3V or 5V. In the first case the voltage is not sufficient, in the second case, you need an additional converter. Our PSU has a 4V output for direct connection¹ to VBAT of GSM-module SIM900 or other modules, which has a nominal voltage of 4V. The PSU noise level is the lowest in its class. It is also special designed for burst-mode of GSM-modules, which is one of the main advantages of this PSU. In addition, the inspiration for the power supply of INTPSU-12-4 Mini is the power supply which is used in products based on SIM900 module, developed by Intellectronics. Thus, INTPSU-12-4 Mini has the reputation of being the GSM-system which is a solution tailor-made for working with GSM-modules.

Tailor-made Solution for GSM alarm/control systems

The PSU has a 12V output. This voltage is often used in GSM-alarm systems to power the various sensors. This is also the common voltage used for relays. A unique feature of INTPSU-12-4 Mini is the positioning of the relay and fuse protection on PCB. Layout for the most common types of relays is used². The circuit is designed for a maximum current of 16 Amps! The relay and fuse are optional features. Please contact your dealer if you need a PSU with installed relay and fuse.



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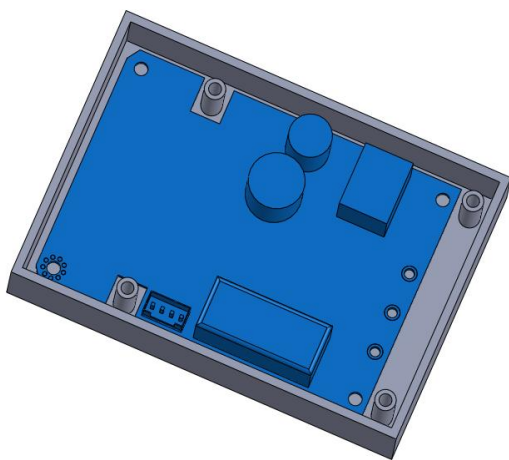
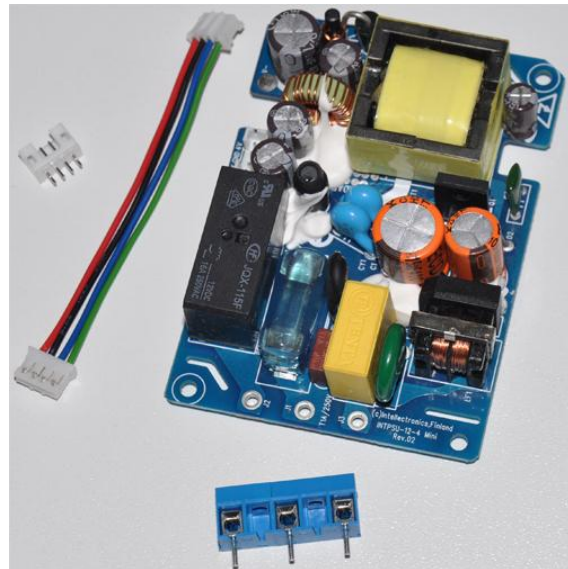


Smallest PSU in its class

The PSU has a low profile and is suitable for installation in the 1U housing. But above all INTPSU-12-4 Mini is compact. It is the smallest power supply in its class available on the market! This unique feature of the PSU can be used in GSM systems where reliability is important – e.g. In domestic homes.

Universal connection, all included

The PSU is designed for technicians who are familiar with soldering. Using a socket-type input is often an inconvenient solution. With this in mind, Intellectronics has provided a unique solution. Holes with a pitch of 10mm are used for the input. This solution allows the wires from the power plug to be soldered directly to the Printed Circuit Board (PCB). This also allows installation of the appropriate terminals and connectors with the same 10mm pitch. For your convenience PSU is supplied with terminals, which can be used if needed³. For the output, a popular wafer-connector with 2mm pitch and rated at 2A is offered. A matched connector for your second board and a suitable cable are also included in the package.



Universal mounting arrangement in the housing

The PSU has special cut-outs to accommodate the various components. In addition to the standard mounting exterior to the PSU, you can also choose to use the compact method of installing, so saving additional space.

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Any housing without affecting the EMC (Electromagnetic Compatibility)!

Despite its small size the INTPSU-12-4 Mini has an EMI filter and requires no additional components in order to meet the necessary standards of electromagnetic compatibility. In addition to a metal cabinet, the PSU can also be mounted in a non-metallic (e.g. plastic) case, with no negative effect to the EMC⁴. To solve this problem special components are installed on the PSU. Compliance with all requirements is confirmed by an independent accredited laboratory and the PSU has all necessary certificates.

Factory-Tested!

Each unit is tested under 100% load at the factory, thus ensuring a fault-free PSU. The PSU carries a two-year warranty! INTPSU-12-4 Mini meets international safety standards, which is confirmed by an independent laboratory.

Cost-effective solution

Using INTPSU-12-4 Mini in your end-product will save you time and money. Read our special booklet "The Benefits of a Tailored Solution"⁵

INTPSU-12-4 Mini also has some outstanding features common for switching power supply

- Universal full range input
- High efficiency >70%
- High reliability
- Short circuit-, overload- and over-voltage protections
- Low leakage current <0.25mA
- Low stand-by power consumption

Notes

1. We strongly recommend the use of an additional VBAT bypass cap on your modem board near the VBAT of the module. Please refer to *Application Note for Integrators (INTPSU-12-4-Mini_AN_Integrators.pdf)*.
2. List of relays you can find in *Application Note for Integrators (INTPSU-12-4-Mini_AN_Integrators.pdf)*.
3. Refer to *Application Note for Integrators (INTPSU-12-4-Mini_AN_Integrators.pdf)* for further information about soldering of terminals.
4. Refer to document "EMC of INTPSU-12-4 Power Supply" (*INTPSU-12-4-Mini EMC_Note.pdf*).
5. Document *INTPSU-12-4-Mini_Tailored_Solution.pdf*.

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