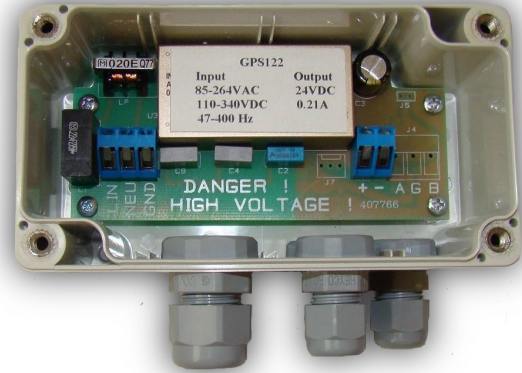




FEATURES

- UNIVERSAL INPUT 85-264 VAC, 47-400 Hz OR 110-340 VDC
- GPS122E MOUNTS IN THE “E” VERSIONS
- HIGH SURGE / TRANSIENTS AND EMI INPUT PROTECTION
- HIGH ISOLATION
- HIGH QUALITY OUTPUT 24 VDC +/-1.0%, 230 mA
- LESS THAN 30 mV_{pp} RIPPLE
- SHORT CIRCUIT OUTPUT PROTECTION
- OVER CURRENT OUTPUT PROTECTION
- 77% EFFICIENCY, SAVES POWER
- SMALL SIZE
- WEIGHT 59 g (2.1 oz)
- SCREW TERMINALS FOR WIRES 22-12 AWG (2.5 mm² max)



1. DESCRIPTION

The GPS122 is a regulated power supply with an universal input, very high regulation and isolation, high efficiency and very low ripple. It has surge and fast transients' protection and very high EMI and noise immunity at the input, and overload and short circuit protection at the output. It can be mounted in the enclosure of GFC100 series flow computers thus saving space and reducing the cost. It can also be used as a stand-alone high quality power supply for many different devices. It can power both [GMAG100](#) magmeter and a GFC100 series flow computer and provide a complete solution.

GPS122E mounts in the “E” versions of our flow computers / totalizers.

With its very low noise and ripple it is an excellent choice for powering high quality instrumentation and industrial control devices.

APPLICATIONS

- TO POWER [GMAG100](#), [GFC110](#), [GFC111](#) OR OTHER FLOW COMPUTERS / TOTALIZERS
- MOUNTABLE IN THE ENCLOSURE OF GFC100 SERIES FLOW COMPUTERS
- TO POWER OTHER DEVICES IN THE SAME ENCLOSURE
- TO BE USED AS A STAND ALONE POWER SUPPLY FOR OTHER EXTERNAL DEVICES



2. ABSOLUTE MAXIMUM RATINGS *

Operating temperature	-20 °C to +70 °C, at 50% load
Operating temperature	-20 °C to +60 °C, at 100% load
Maximum Input Voltage	264 VAC, 340 VDC
Minimum Input Frequency	47 Hz
Maximum output current	0.23A DC, 25 °C

NOTICE: Stresses above those ratings may cause permanent damage to the device.

3. CHARACTERISTICS

Parameter	Conditions	Min	Typ	Max	Units
Input Voltage, AC		85		264	V AC
Input Voltage, DC		110		340	V DC
Input Frequency		47		400	Hz
Output Voltage	Input 115VAC, 60 Hz, 25 °C, output current 230 mA	23.76	24.00	24.24	V DC
Output Ripple	Input 115VAC, 60 Hz, 25 °C, output current 230 mA			30	mV _{pp}
Efficiency	Input 115VAC, 60 Hz, 25 °C, output current 230 mA		77		%

4. APPLICATION

4.1 MECHANICAL

The board of GPS122 is designed to be mounted into the enclosure of GFC100 series flow computers / totalizers.

The board of GPS122E is designed to be mounted into the enclosure of GFC100E series flow computers / totalizers.

4.2 ELECTRICAL

The input voltage 85-264 V AC has to be applied to the terminal J1.

**NOTE: For safety earth ground must be connected to the “GND” terminal !
Disconnect the high voltage before doing any work on GPS122 or GPS122E !**

The earth ground must be connected to the “GND” terminal in order to achieve the best performance of GPS122.

The output voltage is on terminal J2.

Fig. 2 shows the proper connections of the input and output voltage.

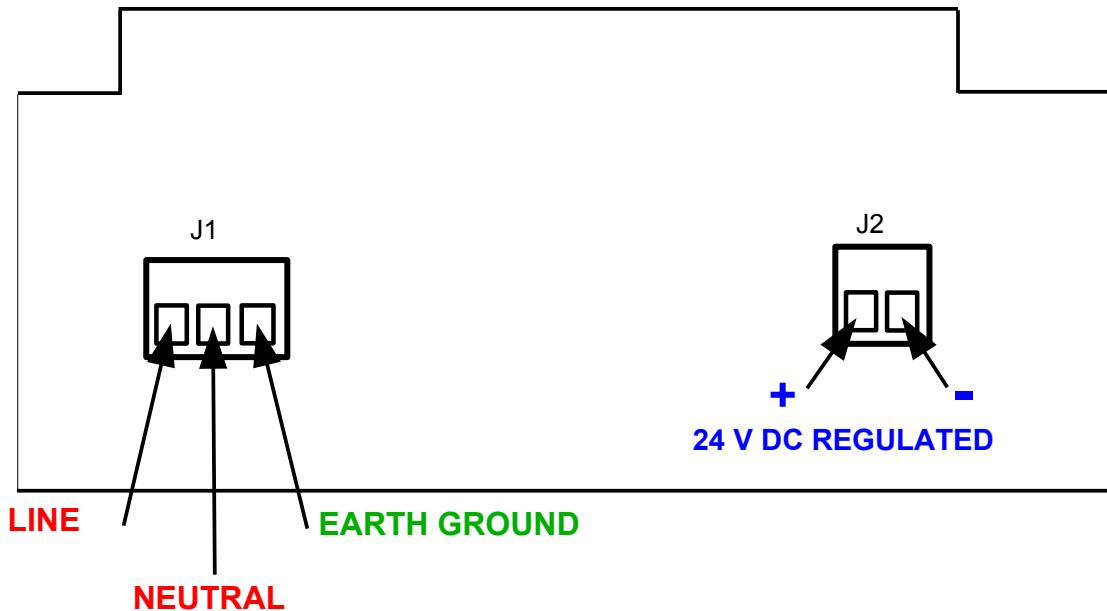


Fig. 2 Electrical connections to GPS122

5. ORDERING

For ordering please use the following G Instruments part numbers:

<i>Description</i>	<i>G Instruments PN</i>
GPS122 power supply board	30225
GPS122 mounted in a blind weather proof enclosure with 2 cable glands	30241
GPS122E power supply board	30226
GPS122E mounted in a blind weather proof enclosure with 2 cable glands	30227



IMPORTANT NOTICE

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Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.

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