



## FEATURES

- GSP115 IS THE 115VAC INPUT VERSION
- WORKS WITH BOTH 50 AND 60 Hz
- SURGE/TRANSIENTS INPUT PROTECTION
- ELECTRICAL NOISE INPUT PROTECTION
- 12VDC NON-REGULATED 90 mA OUTPUT
- SHORT CIRCUIT OUTPUT PROTECTION
- OVER CURRENT OUTPUT PROTECTION
- SMALL SIZE
- SCREW TERMINALS FOR WIRES 22-12 AWG (2.5 mm<sup>2</sup> max)



## 1. DESCRIPTION

The GPS115 is a non-regulated power supply that can be used to power [GFC110](#) series flow computers / totalizers mounted in the same enclosure thus saving space, reducing the cost and providing surge, transients and noise protection to the high voltage AC input and short circuit and over current protection to the 12VDC/90 mA non-regulated output.

GPS115 can also be used to power other devices mounted in the same enclosure or as a stand alone power supply for a variety of devices.

It works with both 50 and 60 Hz input frequencies.

## APPLICATIONS

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

## 2. ABSOLUTE MAXIMUM RATINGS \*

Operating temperature	-40 °C to +85 °C
Input Voltage	115VAC +15/-20%
Minimum Input Frequency	43 Hz
Maximum output current	90 mA DC, 25 °C

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

## 3. CHARACTERISTICS, Input Voltage 115VAC, 60 Hz, 25 °C

Parameter	Conditions	Typical	Units
Output Voltage	Output Current 20 mA	19	VDC
	Output Current 90 mA	12	
Output Ripple	Output Current 20 mA	0.2	Vpp
	Output Current 90 mA	0.6	

## 4. APPLICATION

### 4.1 MECHANICAL

Fig. 1 shows the dimensions of GPS115. The board is designed to be mounted into the enclosure of [GFC110](#) series flow computers / totalizers.

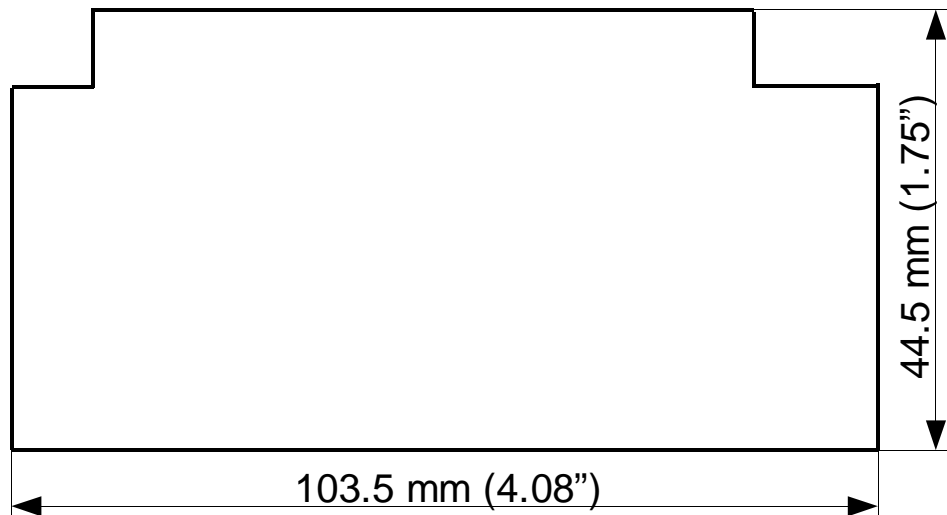


Fig. 1 Dimensions of GPS115

## 4.2 ELECTRICAL

The input voltage 115 VAC 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 GPS115 !**

The earth ground must be connected to the “GND” terminal in order to achieve the best performance of GPS115.

The output voltage is on terminal J2.

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

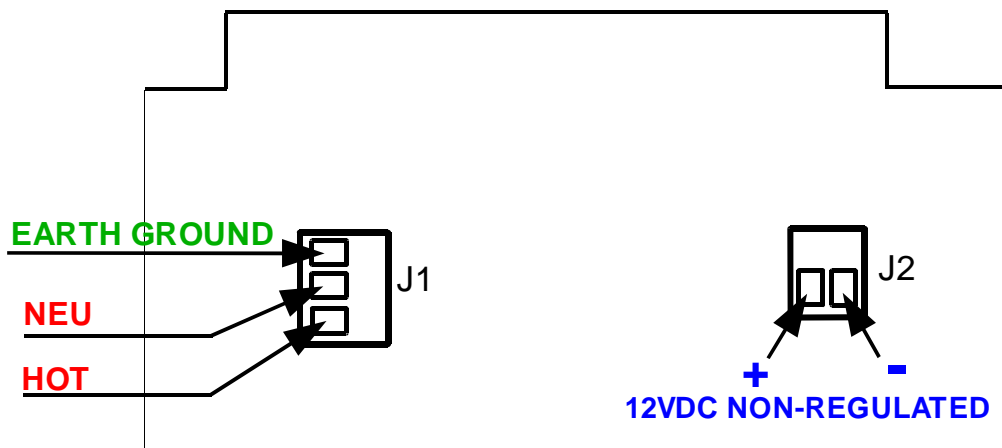


Fig. 2 Electrical connections to GPS115

**NOTE: GPS115 is the 115 VAC version. Apply 115VAC to “NEU” and HOT” terminals.**

**Applying 220VAC will damage the device !**

## 5. ORDERING

For ordering please use the following G Instruments part numbers:

<i>Description</i>	<i>G Instruments PN</i>
GPS115 power supply board, 115VAC to 12VDC/90mA non-regulated	30100
GPS115 mounted in a blind water proof enclosure with 2 cable glands	30143



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