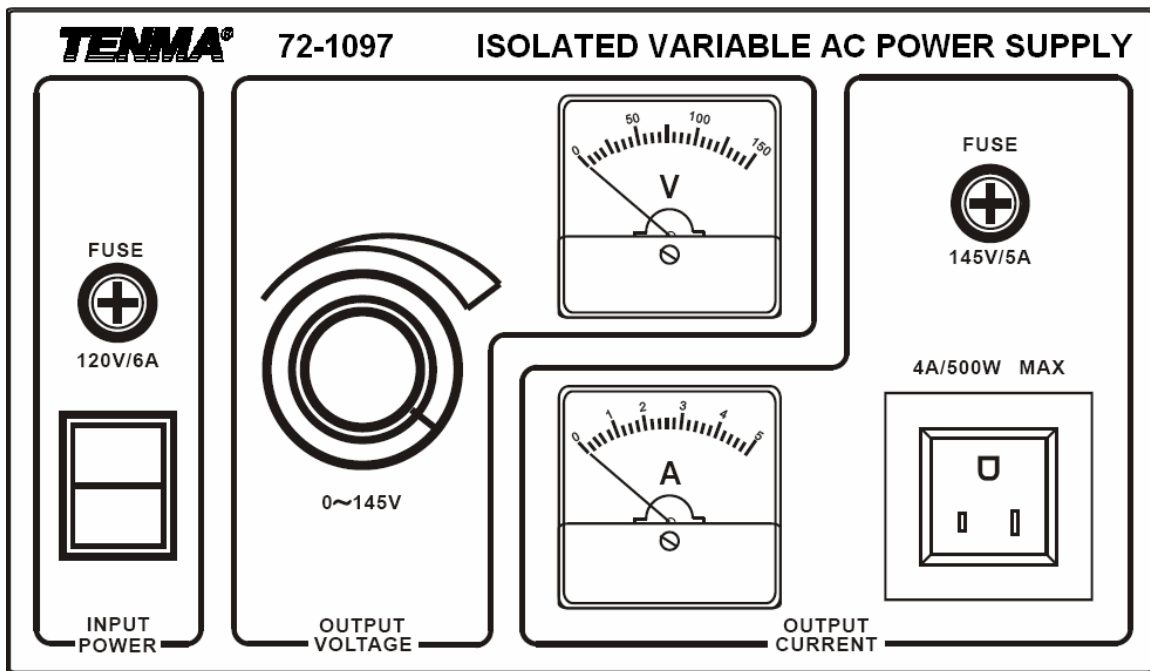


TENMA®

VARIABLE OUTPUT ISOLATION TRANSFORMER Model 72-1097



OPERATION MANUAL

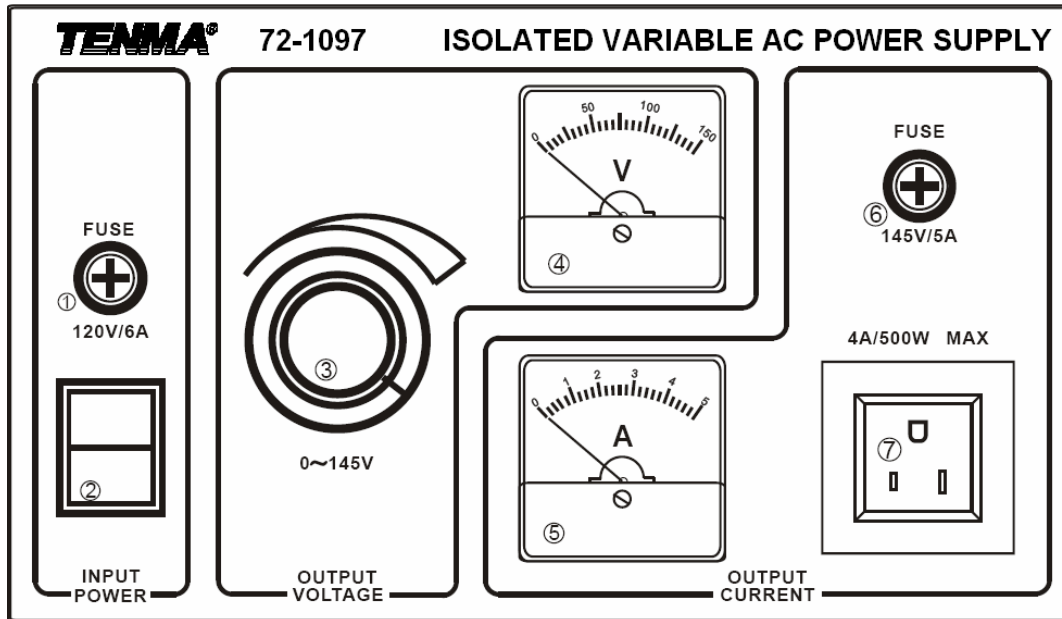
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FEATURES / SPECIFICATIONS

Input Voltage:	100~127VAC
Maximum Output Voltage	145VAC (assumes 110VAC input)
Maximum Output Current	3.5A
Voltage Meter	Analog 0~150 Volt
Current Meter	Analog 0~5 Amp
Overload Protection	Included 5A fuse. May be replaced with lower value fuse to provide lower maximum current output.
Line Fuse Protection	Included 6A fuse
Voltage Adjustment Range	0~145VAC continuous
Output Isolation Leakage	Less than 0.1mA
Meter Scales	
Voltage	150VAC full scale
Current	5A full scale
Meter Accuracy	±5% at full scale
Weight	13.25 lbs.
Dimensions	5-3/4" (H) x 9-1/8" (W) x 9" (D)

CONTROLS AND PANEL LAYOUT



1. Line Fuse

This fuse interrupts the power prior to the isolation transformer and should only be replaced with the same type of AGC, 6A fast blow type.

2. Power-On Switch with Built-In Pilot Lamp

Placed in the up position, the unit will be powered on and the indicator light will be illuminated.

3. Variable Voltage Control

This rotary control adjusts the output voltage from zero (counterclockwise) to full voltage (clockwise). The maximum output is directly proportional to the supply voltage. With supply voltage of 110VAC, the maximum output voltage is 145VAC.

4. Output Voltage Meter

Displays set voltage that will be provided to the output receptacle.

5. Output Current Meter

Displays the current of the connected load

6. Output Fuse

This fuse interrupts the power after the adjustable voltage variac. The maximum value of this fuse is 5A, as provided. Smaller values may be used to provide protection at a lower current. Only AGC fast blow type fuses should be used.

7. Output Receptacle

This grounded three-prong receptacle provides isolated AC output, at a voltage level as determined by the Variable Voltage Control.

PRECAUTIONS

SAFETY

AC power supplies are sources of high voltage. Improper or careless use could result in fatal electrical shock. Observe common sense safety precautions when using this and other electronic devices.

INPUT POWER

These instruments are intended for use with 120V, 60Hz line voltage. Do not operate with 50Hz line voltages, or 220~240VAC volt power systems. The instrument may be operated safely with line voltages as low as 100V, but note the maximum output voltage will be lower.

VENTILATION

The louvered holes in the case provide cooling. Do not block these holes or locate this device near heat sources. Excessive temperature buildup inside the unit can cause failure and a potential hazard.

MAXIMUM OUTPUT VOLTAGE

The output voltage of the AC power supply is adjustable from 0 to 150VAC. It should be noted that this is higher than the maximum recommended input voltage of most electronic devices. The voltage setting of this unit should not exceed the device manufacturer ratings as potential damage could occur. Most AC powered equipment has a maximum input rating of 130VAC. If unsure of the maximum AC voltage rating, do not exceed 130VAC.

MAXIMUM OUTPUT CURRENT

Never exceed the maximum output current of this unit. Excessive current loads will damage the variable auto transformer and isolation transformer.

ISOLATED OUTPUT

The isolated output should only be used for equipment under test. Other test instruments should not be connected to this output.

Fuses

Use only the recommended fuse value for the **Line Fuse**. When replacing this fuse, be sure to use AGC style fast blow type. Disconnect the input power cord from the AC source prior to attempting to remove and replace this fuse.

The **Output Fuse** may be replaced with a lower value in order to provide current limiting protection to the device under test. It is important to note that lower values should still be AGC style fast blow type. Never replace this fuse with one of larger value than listed on the front panel of the Isolated Variable Power Supply. Disconnect the input power cord from the AC source prior to attempting to remove and replace this fuse.

OPERATION

PROCEDURE

Ensure that the Isolated Variable Power Supply is connected to the proper 120VAC, 60Hz power source. The wall outlet MUST be a three-wire grounded type, with a good earth ground.

Turn off the AC power supply and set the OUTPUT VOLTAGE control to the minimum position (fully counterclockwise).

Connect any additional equipment to be used, directly to the AC power source. Do not power via the isolated output of this supply.

Connect the AC power cord, of the unit under test, to the output receptacle on the front of this supply.

Turn the supply power on.

Turn on the power to the device under test.

Adjust the output voltage of the Isolated Variable Power Supply to the desired level.

For questions regarding problems or use of this unit, please contact our Technical Support Department at 1-800-765-6960, or email at tech@mcminone.com.