

NP-9615 SERIES DC REGULATED POWER SUPPLY

USER'S MANUAL

INTRODUCTION

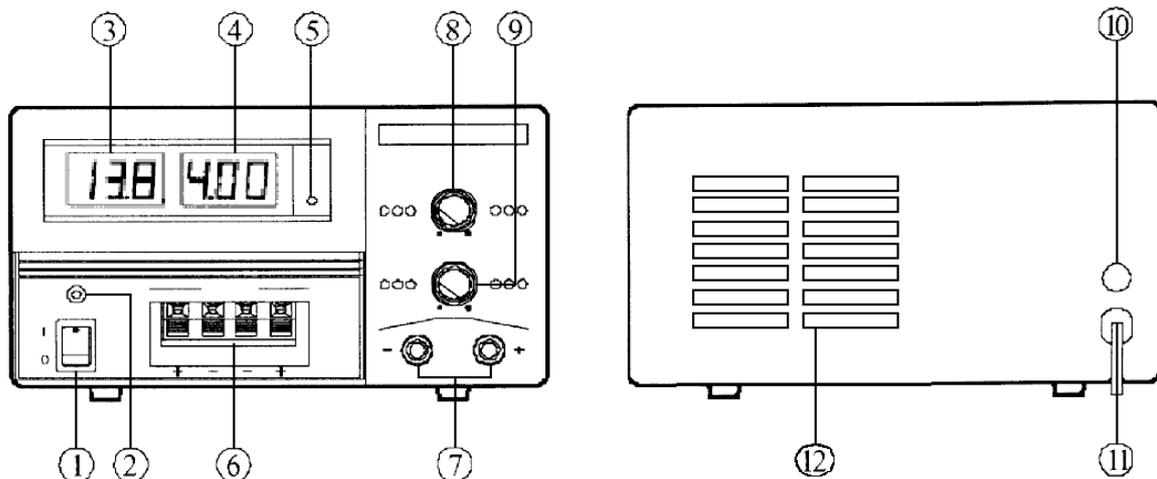
The NP-9615 series DC regulated power supply is a compact, well regulated laboratory style unit. It is suitable for service work, hobby and educational use as well as laboratory use in many fields of science and engineering. It provides one variable output and two fixed outputs for a wide variety of applications.

Please read these instructions carefully and follow them to prevent abuse or misuse of the power supply. These instructions must be kept for future reference.

FEATURES

1. Overload and short-circuit protection: when the unit detects an overload or a short-circuit condition the output current is limited to that set.
2. Independent 5V and 12V outputs with easy snap-on output terminals. These voltage outputs are ideal for TTL or CMOS circuit testing. As the outputs are not grounded, they can provide negative voltages or can be wired in series for a higher output voltage (17V).

PANEL DESCRIPTION



- | | |
|------------------------------|-----------------------------|
| 1. On/Off Switch | 2. Power On Indicator |
| 3. Voltmeter | 4. Ammeter |
| 5. Current Limited Indicator | 6. Snap-On Output Terminals |
| 7. Screw-On Output Terminals | 8. Voltage Adjustment Knob |
| 9. Current Adjustment Knob | 10. Fuse Holder |
| 11. Power Cord | 12. Fan Outlet |

INSTALLATION

1. Ensure that the AC supply power is $\pm 5\%$ of the rated input voltage. Also ensure that the unit is properly grounded through the AC mains plug.
2. **DO NOT** place the unit in dusty or highly humid locations. **DO NOT** place the unit in direct sun-light or locations subjected to high temperatures.
3. Place the unit in a location which provides unobstructed air circulation.
4. The unit is for **Indoor Use Only**.

CAUTION

1. **DO NOT** use the unit for powering devices that require higher current than the maximum - otherwise damage may occur to the unit.
2. **DO NOT** replace the fuse and operate the unit before rectifying the problem that caused it to fail. Always replace the fuse with the same rated type. Always unplug the unit before attempting to replace the fuse.
3. If the external power cable or cord of this unit is damaged, it must be replaced by the same or equivalent unit from the manufacturer or service agent. The supply cord and plug must be installed and protected in accordance with national wiring rules.

SAFETY PRECAUTIONS

1. **NEVER** remove the metal cover of the power supply with the AC power connected. Allow the unit to cool before opening the cover. Some components may burn your hand in the event of a component failure. Only qualified personal should open the cover.
2. **NEVER** touch the unit with wet hands or allow it to become wet.
3. **NEVER** operate the unit if foreign materials such as metallic objects, liquids or other debris have fallen inside. Return to the manufacturer or dealer for checking and repair.
4. **NEVER** operate the unit if it has been damaged. The voltage regulation circuitry may have been disabled, resulting in high voltage and damage to your equipment.
5. **NEVER** allow foreign objects to come into contact with the DC output terminals.
6. **NEVER** block the vents - including the cooling fan outlet.
7. **ONLY** connect to the AC mains outlet when in use, at all other times disconnect the power supply from the AC mains outlet.

CONNECTION AND OPERATION

1. Make sure the input AC power source is as per the label before plugging in the unit.
2. Turn ON the power supply and adjust the output voltage to match that of your equipment. Adjust the current limit to that required. Then turn OFF the power.
3. Connect your equipment to the unit. Positive polarity to red (+) and negative polarity to black (-).
4. When ready, turn ON the power supply and then turn ON your equipment.
5. When finished, turn OFF your equipment and then turn OFF the power supply.

SPECIFICATIONS*

NP-9615

OUTPUT VOLTAGE:	0-30V DC
OUTPUT CURRENT:	0-5A
RIPPLE AND NOISE:	5mV RMS
LINE REGULATION:	10mV ($\pm 10\%$ variation)
LOAD REGULATION:	30mV
FIXED VOLTAGE 1:	12V DC/ 0.5A (1A peak)
FIXED VOLTAGE 2:	5V DC/ 0.5A (1A peak)
POWER SOURCE:	230~250VAC/50Hz
METER TYPE:	Digital - LCD
METER ACCURACY:	1% + 2 digits
COOLING SYSTEM:	Fan
CE APPROVAL:	EN61558, EN55014
DIMENSIONS (W x H x D):	205 x 115 x 280 mm
WEIGHT:	Approx. 6.5Kg

*Specifications subject to change without notice.