

EPA9300

REGULATED DC POWER SUPPLY

INTRODUCTION

- ⇒ The EPA9300 DC Regulated Power Supplies provide large power output. Suitable for a variety of uses, especially for DC operated radio equipment, source from an AC outlet and providing a variable voltages of 1V to 15V and under 28A continuous operation at 13.8Vdc output.
- ⇒ Please read through this operating instruction carefully and follow the instructions to prevent from abuse or misuse. This manual must be kept for reference at anytime in need.

FEATURES

- ⇒ **Overload Protection**
A current foldback circuit is adopted to prevent the unit from overload. The overload indicator will light up when the unit is overloaded.
Note: When the overload protection circuitry is activated, switch off the unit and disconnect the loading immediately. Extended operation under overload conditions will eventually cause damage to the unit.
- ⇒ **High RFI Stability**
The unit is specifically designed for use with radio communication equipment. It therefore includes extensive filtering to provide high immunity from erratic operation caused by Radio Frequency Interference (RFI).
- ⇒ **Variable Speed Cooling Fan**
The cooling fan of the unit varies with the temperature of the unit. The unit becomes hotter the speed of the fan becomes faster. It is more effective than the ordinary cooling fan with fixed speed.
- ⇒ **Multiple DC Output Terminals**
The unit has two pairs of (3A) snap-in DC connections and a pair of (28A) screw-on DC output terminal.
- ⇒ **Variable Output**
The variable output voltages from 1V to 15V enables good fits with various uses.

INSTALLATION

- ⇒ Make grounding the unit to prevent from electric shock at high voltage caused by leakage or lightning.
- ⇒ DO NOT place the unit in high humid, dusty and/or sunshiny places.
- ⇒ Place the unit in a location where allows free air circulation.
- ⇒ DO NOT place the unit close the TV sets or CRT monitor.
- ⇒ Couple with an AC outlet directly, as source via distribution cables may heat plugs and cables.
- ⇒ Put the unit horizontally for accurate meter readings.

CAUTION

- ⇒ DO NOT use the unit for the equipment requiring higher current input than the designed value otherwise damage the unit.

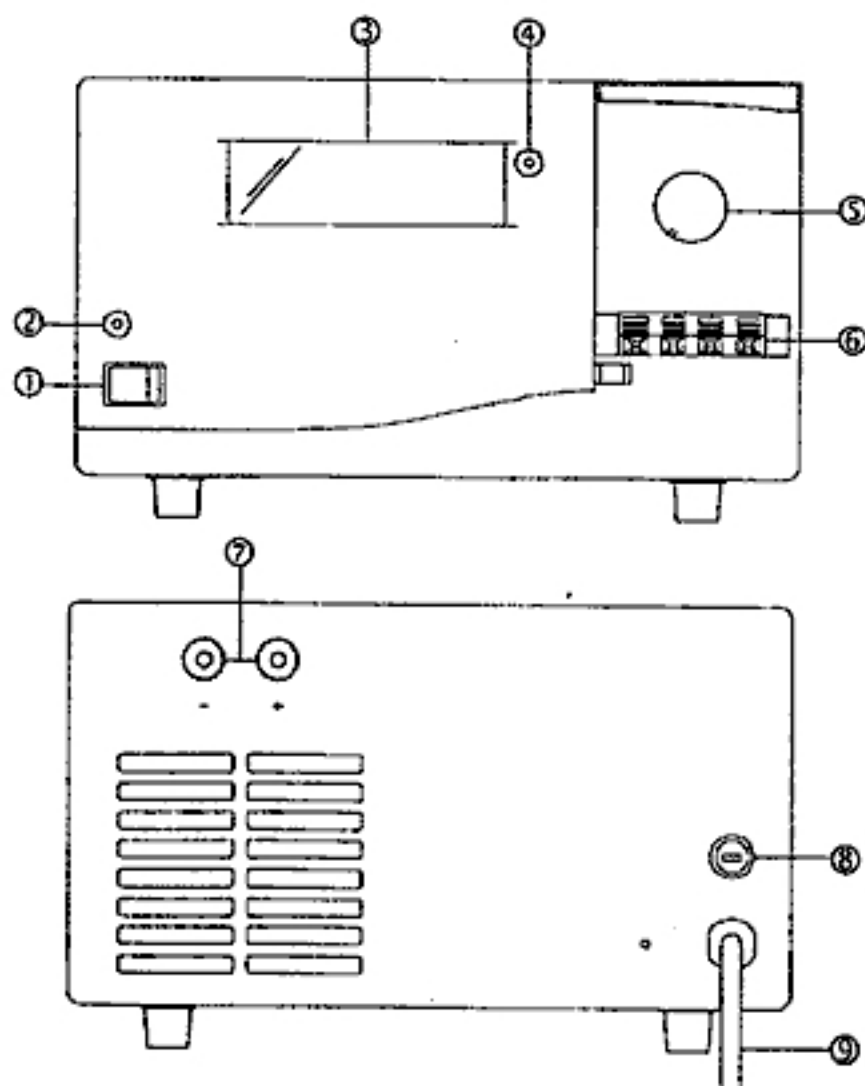
- ⇒ DO NOT use the unit for the equipment, which require high current input at starting and it may damage the unit, for examples, lamps and motorized equipment.
- ⇒ DO NOT replace the fuse before ceasing problems and the assigned value of fuse must be used in place.

SAFETY PRECAUTIONS

The following precautions **MUST** be read carefully to help prevent from electric shock.

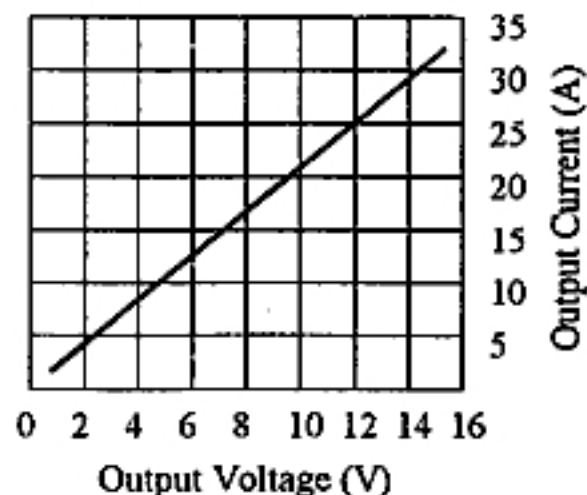
- ⇒ NEVER remove the metal cover of the power supply while AC power is connected.
- ⇒ NEVER touch the power supply when your hands are wet.
- ⇒ NEVER operate the power supply if foreign materials such as metallic objects, water, or other debris have fallen inside. Contact your dealer for check and repair.
- ⇒ NEVER operate the unit that was being damaged, as the voltage regulation circuitry may have been disabled. The resulting high DC voltage could cause damage to your equipment.
- ⇒ NEVER allow foreign objects to touch the DC Power Output terminals.
- ⇒ If you have the need to inspect the interior of the power supply, be contained to let it cool down completely, as some components may be hot enough to burn your hands in the event of component failure.

FRONT AND REAR PANEL



- ① POWER SWITCH: Switch On/Off the unit.
- ② POWER LED: Lights up when the unit is operated.

- ③ **METER:** Current and Voltage indications being operated respectively.
- ④ **OVERLOAD INDICATOR:** Lights up when Overload Protection circuit is activated.
- ⑤ **VOLTAGE ADJUSTMENT KNOB:** To adjust the output voltage from 1-15V. One touch 13.8V setting is made at a clicking point. The normal operating output current limit against the output voltage is shown as below.



- ⑥ **3A OUTPUT TERMINAL:** Two pairs of easy snap-in output terminal for 3A Maximum. Red is (+) positive and Black is (-) negative.

- ⑦ **28A OUTPUT TERMINAL:** Screw-on high capacity output terminal. Red is (+) positive and Black is (-) negative.
- ⑧ **FUSE.**
- ⑨ **POWER CORD.**

➤ CONNECTION AND OPERATION

- ① Turn off the unit.
- ② Be sure an AC power source fits the unit labeled input voltage and plug it in the AC outlet.
- ③ Turn ON the unit and adjust an output voltage to match with the input voltage of the equipment. Then turn OFF the unit.
- ④ Make sure the equipment is/are turned off.
- ⑤ Connect red (+) output terminal of the unit to the positive polarity input of the equipment and connect black (-) output terminal of the unit to the negative polarity input of the equipment.
- ⑥ First turn ON the unit and then turn the equipment ON.
- ⑦ When an operation is over, turn OFF the equipment first and then turn OFF the unit.

➤ SPECIFICATIONS

EPA9300	
OUTPUT VOLTAGE	DC 1-15V Variable
OUTPUT CURRENT	28A (at 13.8Vdc Output)
RIPPLE & NOISE	5mV (peak to peak)
LINE REGULATION	5mV ($\pm 2\%$ Variation)
LOAD REGULATION	50mV (0-100% Load)
POWER SOURCE	230V/50Hz (or requested)
VOLTMETER TYPE	Precision Analog
AMMETER TYPE	Precision Analog
COOLING FAN	Temperature Sensitive Variable Speed Cooling Fan
DIMENSION (WxHxD)	250mm x 140mm x 225mm
WEIGHT	9 Kg
ACCESSORIES	User Manual