

SWITCHING MODE  
DC REGULATED POWER SUPPLY

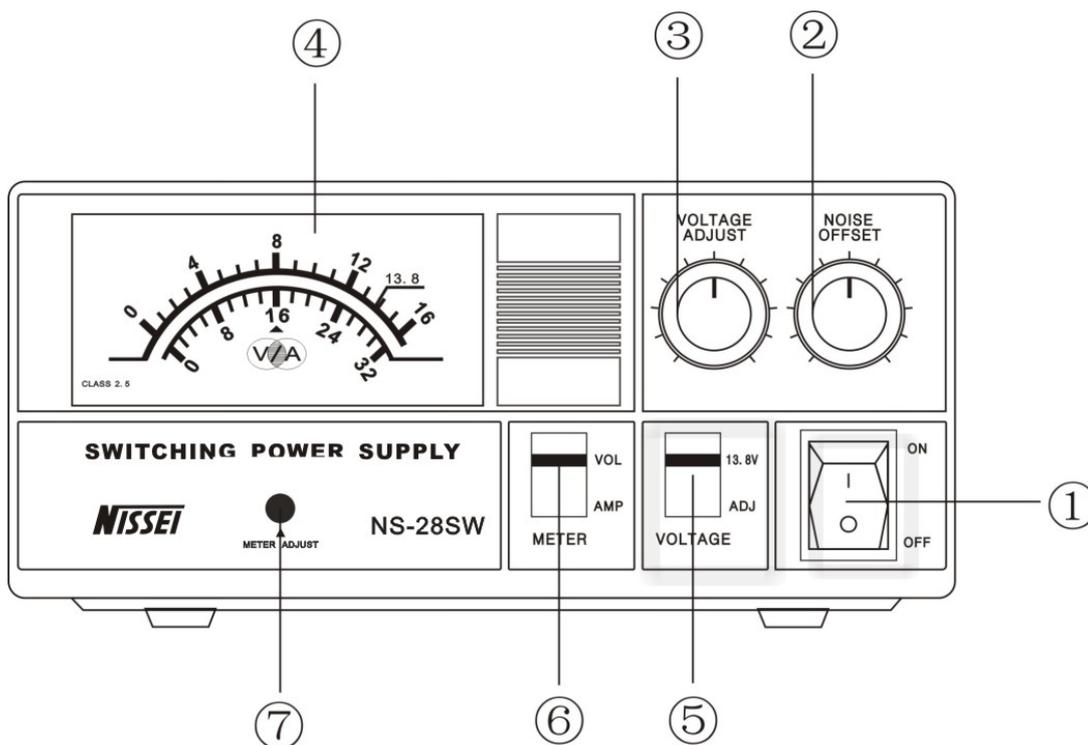
NS-28SW

**INSTRUCTION MANUAL**

## INTRODUCTION

NS-28SW is an efficient, compact, and light-weighted switching power supply. It is designed to minimize the noise for the radio communication equipment. Even when the noise occurs, it can be eliminated by the Noise-offset control. Other convenient functions, like voltage pre-set knob and a highly visible back lit meter are all included in this standard power supply.

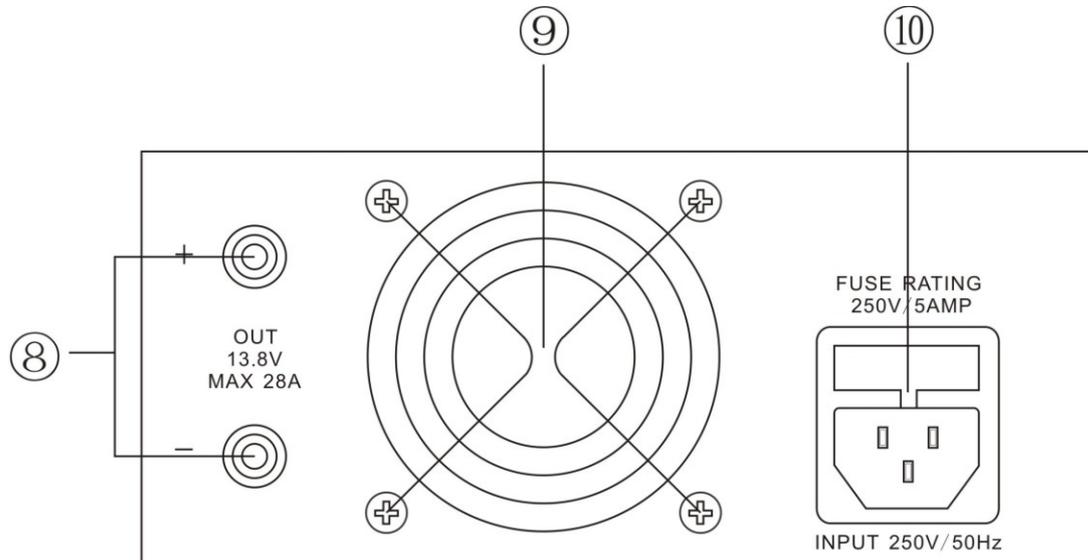
## PART NAMES AND FUNCTIONS



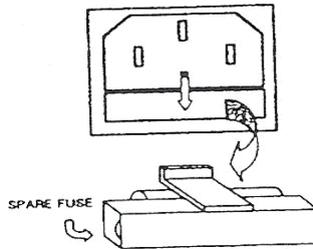
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1. Power switch: Unit on and off.

2. **Noise off-set volume control:** Adjust it to eliminate the pulse noise of the switching power supply. This function is designed for radio communication. (Effectiveness may be vary because of the frequency and mode.)
3. **Voltage adjustment:** Adjusts voltage between 9.0 and 15.0 volts. Turn clockwise to increase and counter clockwise to decrease the voltage. When it is set at the center position, it will be 13.8 volts.
4. **Meter:** Displays the voltage or current.
5. **Output control switch:** Turn this switch to 'ADJ' position while you adjusting. ⑥ to the desired output level / Fixed output: 13.8V.
6. **Meter switch:** Select the position to indicate voltage (V) or current (A) .
7. **Meter calibration:** Adjust the meter to the zero position.



8. **Output terminal:** 28A max; Red positive black negative.
9. **Cooling fan**
10. **FUSE:** If you want to change FUSE F1, please use the screwdriver and pull out the cover to replace.



## **SPECIFICATIONS**

1. input voltage: 220VAC
2. output voltage: DC13.8V or 9V-15V variable
3. output voltage regulation: less than 2%
4. protection: Short-circuit, Automatic current limiting within 28A
5. output current: 28A (max), 20A (continuous)
6. Ripple: less than 80mVp-p at rated load

7. fuse: 5A
8. Meter: single volt/current meter, back-lit
9. Dimensions: 150 (W) ×70 (H) ×200 (D) mm (Projections not included)
- 10 .Weight; approx.1.5kg

## **CAUTION**

1. Even though the chassis of the unit is negatively grounded, use correct terminals to connect cable.
2. When plugging the unit into a wall outlet, it must be turned off.
3. Place the unit in a dry and well ventilated area.
4. Never touch the unit while it is working. Even though it is designed for high efficiency, the unit will still get hot.
5. A current limiting system will protect the unit from overloading.
6. If a short circuit occurs while outputting, the unit will be protected by a short circuit protection function. Turn off the unit and repair the cause of the short circuit immediately, then turn it back on.
7. Do not use the unit for devices that require high current input at the start, such as motorized equipment. Do not use the unit to charge a car battery.
8. Do not use a car cigarette lighter in the cigarette plug socket on the unit.

9. Before replacing a fuse make sure that the unit has been turned off. Be sure to use the specified type of fuse.
10. Make sure the product is always suitably grounded to prevent electric shock and to reduce noise.
11. Never disassemble, modify, and touch the inside of the unit unnecessarily. That could cause damage to the product and make the warranty invalid.