

ALINCO

SWITCHING MODE
DC REGULATED POWER SUPPLY

DM-330MWII

INSTRUCTION MANUAL

Thank you for purchasing the Alinco switching mode DC regulated power supply, DM-330MWII. The DM-330MWII instruction manual contains important safety and operating instructions. Read this manual carefully before using this product. Keep the manual for future reference.

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INTRODUCTION

Alinco's **DM-330MWII** is a high efficiency, compact, lightweight, high performance switching mode power supply. It is also engineered to minimize the switching noise specifically for communication use. Even when noise occurs, it may be eliminated with the Noise-Offset function. Also convenient functions like pre-set voltage, remote control and a highly visible back lit meter are standard in this power supply.

CAUTION

1. Even though the chassis of the unit is negatively grounded, use the correct terminals to connect cables.
2. When plugging the unit into a wall outlet, it must be turned off.
3. Place the unit in a dry and wellventilated area.
4. Never touch the unit while in use. Even though it is designed for high efficiency, the unit will still get hot. If the unit reaches a certain temperature, the "extreme temperature protection" function will protect the unit by automatically dropping the current down to a safe level and the protection indicator will light up.
5. The unit has overloading and short-circuit protection circuits. Overloading protection automatically checks and controls level of output current at a safe level (or cuts off when extremely overloaded). Short-circuit protection detects short-circuit and turns the unit

off immediately. At any case when the protection indicator lights up, remove the cause of trouble, await about a minute then turn it back on.

6. Do not use the unit for devices that require high current input at the start, such as motorized equipment. Never use the unit to charge a car battery.
7. Do not use a car cigarette lighter in the cigarette plug socket on the unit.
8. Before replacing a fuse make sure the unit is turned off. Be sure to use the specified type of fuse (see below).
9. Make sure the product is always suitably grounded to prevent electric shock and to reduce noise. (The unit can be grounded by connecting a grounding cable to the appropriate screw)
10. Never disassemble, modify, or touch the inside of the unit unnecessarily. This could cause damage to the product and will void the warranty.

PRESET FUNCTION

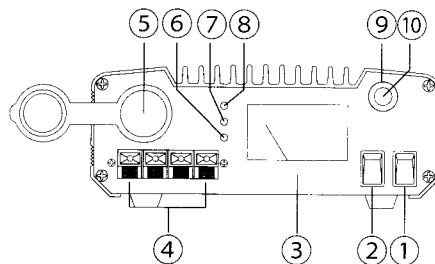
When this function is activated, a preset voltage will be supplied regardless of the current voltage setting. To store the preset voltage, turn the switch to the preset position and adjust the preset volume ⑪ to the desired output level. When this function is selected the voltage adjustment control on the front panel will be deactivated to protect from over voltage.

SPECIFICATIONS

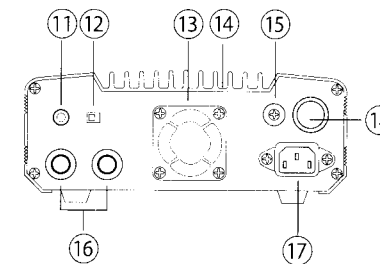
Input voltage:	230VAC
Output voltage:	5~15VDC variable
Output voltage regulation:	less than 2%
Protection:	short-circuit, Automatic current limiting over 30A over-temperature
Output current:	30A (max), 25A(continuous)
Ripple:	less than 15mVp-p at rated load
Fuse:	4A (Fast-blow ceramic tube for 230VAC)
Meter:	single volt / current meter, back-lit
Dimensions:	190(W)×69(H)×181(D)mm (Projections not included)
Weight:	approx. 2.5kg with AC cord

PART NAMES AND FUNCTIONS

Front View



Rear View



- ① **Power switch:** Turns the unit on and off.
- ② **Meter switch:** Select the position to indicate voltage (V) or current (A).
- ③ **Meter:** Displays the voltage or current.
- ④ **Snap in output terminal:** 5A max. Red positive, black negative.
- ⑤ **Cigarette plug terminal:** 10A max.
- ⑥ **Protection indicator:** Lights up as a warning when the current limiting system is activated.
- ⑦ **Preset indicator:** Lights up when preset function is activated.
- ⑧ **Power indicator:** Lights up when the unit is turned on.
- ⑨ **Voltage adjustment:** Adjusts voltage between 5.0 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 supply 13.8 volts.
- ⑩ **Noise off-set volume control:** Adjust to eliminate the pulse noise of the switching circuit. This patent pending function is specially designed for communication use. (It's effectiveness may vary depending on the frequency and mode.)
- ⑪ **Preset volume:** see ⑫
- ⑫ **Preset switch:** To store the preset voltage, turn this switch to the preset position and adjust the preset volume to the desired output level.
- ⑬ **Cooling fan:** The fan turns on and off automatically (internal temperature at 45°C)
- ⑭ **Heat sink :** Do not touch the surface when the unit is in use. Let the unit cool down completely before touching it.
- ⑮ **Grounding screw:** Used to connect the Earth grounding cable to the unit. (cable is not provided)
- ⑯ **Output terminal:** 30A max. Red positive, black negative.
- ⑰ **Power socket:** 230VAC
- ⑱ **Fuse:** 4A, Fast-blow ceramic tube type for 230V AC input protection.