

FOR YOUR SAFETY

The following pages explain how to avoid possible accidents and damage to the user and his property. They will explain the proper manner in which to use this product.

Explanation of caution indications

Caution	indication	Meaning
	Danger	Improper handling presents an immediate danger of death or serious injury.
	Warning	Improper handling may lead to death or serious injury.
	Caution	Improper handling presents a risk to physical health or property. ²

¹: Injuries, skin burns, electric shocks, etc. not requiring hospitalization or extensive medical treatment.
²: extensive damage to buildings and possessions; injury to domesticated animals and pets

Explanation of symbols

Symbol	Meaning of symbol
	This symbol indicates actions that must be strictly avoided. The details of the actions to be avoided are written in or around the symbol using graphics and/or text.
	This symbol indicates that there are procedures that must be followed without fail. The procedures to be followed are described in or around the symbol using graphics and/or text.
	This symbol indicates that the power plug must be disconnected from the socket. Details of the warning are written in or around the symbol using graphics and/or text.

Before using this product, please note that we shall not assume any responsibility whatsoever for purely economic losses, such as lost communication opportunities, resulting from breakdowns, incorrect operation, product problems, or external causes such as power cuts.

Warning

This unit should only be used with a standard wall outlet 230VAC. If it is used in any other manner electric shock and fire could occur.

Wash skin and or clothes immediately with water if any liquid leaks from inside the unit and comes in contact with it. It may irritate the skin and could stain clothing. If any liquid gets into the eye, wash immediately and contact a doctor. It may cause injury to the eye.

Never touch the chassis of the unit during use. The surface of the product may become very hot, especially the heat sink. A burn to the skin may occur.

Do not short-circuit the cables. Make sure the cables are connected to the correct terminal. (Positive to positive and negative to negative)

ALINCO

SWITCHING MODE
DC REGULATED POWER SUPPLY
DM-330MWII

INSTRUCTION MANUAL

ALINCO, INC.

Yodoyabashi-Dai building 13th Floor
4-9, 4-Chome, Koraiabashi, Chuo-ku, Osaka 541-0043, JAPAN
Phone: +81-6-7636-2362 Fax: +81-6-6208-3802
http://www.alinco.com
E-mail: export@alinco.co.jp

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.

ALINCO, INC.

Relative certificate can be reviewed at <http://www.alinco.com/ce/>.

©Alinco, Inc., Osaka, Japan. All rights reserved.
Although Alinco has designed this manual to be as comprehensive and accurate as possible, we reserve right to make changes at any time to the content or our specifications. Please note that certain products and accessories may not be available in all countries of distribution. Please consult your Authorized Alinco Dealer for information.

PS0644
FNEE-NH

Danger

Do not disassemble, modify or repair the unit unless otherwise specified in the manual. Only an authorized technician may do this. Never modify the cable to extend or shorten it. This may cause fire and or electric shock, and will void the warranty.

Never use the unit outside, in a bathroom, or any other place where the unit could become wet. Do not rest anything that contains liquid on the product. If liquid gets inside the unit it could cause fire, shock and damage to the unit. If this happens, unplug the unit immediately. Do not use the unit in a humid environment. If dew condenses on the unit, dry it completely before use.

Always hold the plug when plugging and unplugging the unit. Never unplug the unit by pulling the cable. It may cause fire, shock and damage to the unit.

Unplug the unit during maintenance. Otherwise it may cause shock and damage to the product.

Do not plug/unplug the unit with wet hands. It may easily cause electric shock.

Disconnect the power plug from the socket.

Do not use the unit where there may be flammable gas. This may cause fire and explosion.

Unplug immediately if anything noticeably unusual happens, such as smoke and or strange odors coming from the unit. Contact our authorized service centers immediately for service.

Unplug the cable when replacing the fuse. Use the specified fuse only. Using the wrong fuse could cause heat and fire.

Caution

Use this unit only in room temperatures. (10 to 35 degrees centigrade or 50 to 95 degrees Fahrenheit) Keep the unit in a dry and well-ventilated place. Do not use the unit in direct sun-light, or where it may come in contact with water or in a poorly ventilated area. It may cause heat, fire and damage to the unit.

Place the unit on a secure and horizontal surface. If it is placed on an unstable surface, the unit may drop and cause damage and injury. This will also be helpful in getting accurate meter readings.

Do not cover the air vent on the chassis or the fan. This may cause extreme heat, fire and damage.

Never leave the unit within a child's reach. This may injure them or burn their skin.

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. This may cause damage to the unit.

Make sure that the devices that are to be connected meet the specifications of this unit, otherwise it may cause damage to the product.

Never try to use a car cigarette lighter in the cigarette lighter socket of this product. Otherwise, the product may become damaged.

Never insert any metal or flammable objects inside the unit. It may cause damage, shock and fire. If any foreign objects get into the unit, turn it off and unplug it and contact an authorized service center.

Insert the cigarette-plug securely and completely into the socket. Insufficient connection may cause

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

- Even though the chassis of the unit is negatively grounded, use the correct terminals to connect cables.
- When plugging the unit into a wall outlet, it must be turned off.
- Place the unit in a dry and well-ventilated area.
- 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.
- 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.
- 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.
- Do not use a car cigarette lighter in the cigarette plug socket on the unit.
- Before replacing a fuse make sure the unit is turned off. Be sure to use the specified type of fuse (see below).
- 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)
- 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 voll / current meter, back-lit
 Dimensions: 190(W) x 69(H) x 18 (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 ⑩
- 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. (cables 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.