# FOR YOUR SAFETY

To ensure safe operation of Alinco's products, please read the "Warning" section before using this product. To ensure safe operation and prevent any danger to life and/or property, you may find the symbols shown below in this manual. Please read and understand the meanning of these symbols before using this product.

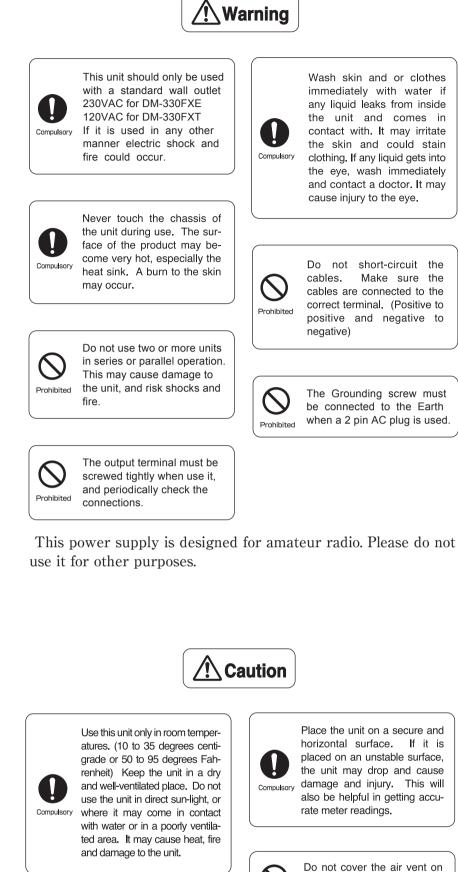
Symbols	Explanation	
🕂 Dang	This symbol is inteded to alert the user to an immediate danger that may cause loss of life and/or property if the user disregards the warning.	
\land Aler	This symbol is intended to alert the user to a possible hazard that may cause loss of life and/or property if the user disregards the warning.	
🕂 Cautio	This symbol is intended to alert the user to a possible hazard that maycause injury or the loss of property if the warning is disregarded.	
Symbols	Explanation	
	The $\triangle$ symbols contain information on what the user should be aware of in terms of dangers, alerts and cautions	

	aware of in terms of dangers, alerts and cautions.
$\oslash$	The $\bigcirc$ symbol informs the user of prohibited acts. Specific information of what is prohibited is drawn inside or near the symbol.
Ĩ	The ● symbols contains information on what the user is instructed to do. Specific information on the instruction is inside the symbol (in this case he symbol instructs the user to unplug the adapter from the wall outlet).

The manufacturer declines any responsibilities against economic loss due to loss of communication opportunities caused by exernal factirs such as malfunctions, mistakes, failures and/or blackouts.

🕂 Danger

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prohibite

ranty.

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.

Do not disassemble, modify

or repair the unit unless

otherwise specified in the

manual. Only an authorized

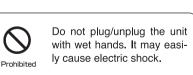
technician may do this. Nev-

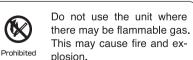
er modify the cable to ex-

tend or shorten it. This may

cause fire and or electric

shock, and will void the war-

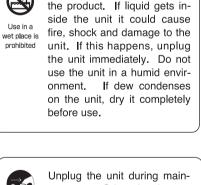




This may cause fire and explosion.



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



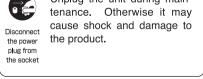
Never use the unit outside, in

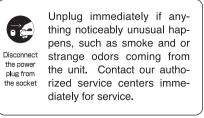
a bathroom, or any other

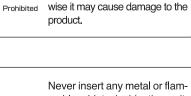
place where the unit could be-

come wet. Do not rest any-

thing that contains liquid on







Never leave the unit within a

child's reach. This may injure

Make sure that the devices that

are to be connected meet the

specifications of this unit, other-

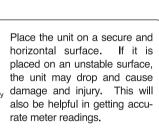
them or burn their skin.

mable objets inside the unit. It may cause damage, shock and fire. If any foreign objects get into the unit, turn it off and Prohibited unplug it and contact an authorized service center.

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

correct terminal. (Positive to positive and negative to

The Grounding screw must be connected to the Earth when a 2 pin AC plug is used.



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

> 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.

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

Insert the cigarette-plug se- $\bigcirc$ curely and compleately into the socket. Insufficient connection may Prohibited cause damage to the unit.

# **ALINCO**

SWITCHING MODE DC REGULATED POWER SUPPLY

# **DM-330FX**

## **INSTRUCTION MANUAL**

Thank you for purchasing the Alincoswitching node DC regulated power supply, DM-330FX. The DM-330FX instruction manual contains mportant safety and operating instructions. Read this manual carefully before using this product. keep the manual for fufure reference.

ALINCO, INC.

#### INTRODUCTION

Alinco's **DM-330FX** 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 output voltage fix, USB and a highly visible back lit meter are standard in this power supply.

off immediately. At any case when the

protection indicator lights up, remove

the cause of trouble, await about a

6.Do not use the unit for devices that

use the unit to charge a car battery.

7. Do not use a car cigarette lighter in the

8. Before replacing a fuse make sure the

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

10 Never disassemble, modify, or touch

product and will void the warranty.

the inside of the unit unnecessarily.

This could cause damage to the

unit is turned off. Be sure to use the

cigarette plug socket on the unit.

specified type of fuse (see below).

screw)

require high current input at the start,

such as motorized equipment. Never

minute then turn it back on.

#### 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 shortcircuit 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

### **SPECIFICATIONS**

Input voltage: Output voltage: Output voltage regulation: Protection:	230VAC(DM-330FXE) / 120VAC(DM-330FXT) 9~15VDC variable, USB 5V less than 3% short-circuit, Automatic current limiting over 30A over-temperature
Output current:	So A (max), 25A (continuous)
Ripple:	less than 50mVp-p at rated load
Fuse:	AA (DM-330FXE) / 8A (DM-330FXT)
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

🔝 ALINCO, INC. ∕odoyabashi-Dai building 13th Floor

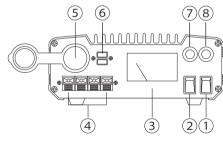
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#### PART NAMES AND FUNCTIONS

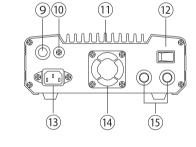
Rear View



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Front View



- Power switch: Turns the unit on and off.
- Meter switch: Select the position to indicate voltage (V) or current (A).
- **Meter**: Displays the voltage or current.
- Snap in output terminal: 5A max. Red positive, black negative Cigarette plug terminal: 10A max.
- USB ports: 2A max.
- Noise offset 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.)
- 8 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 supply 13.8 volts.
- Fuse: 4A (DM-330FXE) / 8A (DM-330FXT)
- 0 Grounding screw: Used to connect the Earth grounding cable to the unit. (cable is not provided)
- (1) Heat sink: Do not touch the surface when the unit is in use. Let the unit cool down completely before touching it.
- 1 Voltage fix switch: The output voltage can be fixed at 13.8V or adjustable by (8).
- (3) Power socket: 230VAC (DM-330FXE) / 120VAC (DM-330FXT)
- (A) Cooling fan: The fan turns on and off automatically. (internal temperature at 45°C)
- (5) **Output terminal**: 30A max. Red positive, black negative.