

## 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 meaning of these symbols before using this product.

Symbols	Explanation
<b>Danger</b>	This symbol is intended to alert the user to an immediate danger that may cause loss of life and/or property if the user disregards the warning.
<b>Alert</b>	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.
<b>Caution</b>	This symbol is intended to alert the user to a possible hazard that may cause 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.
	The $\circ$ symbol informs the user of prohibited acts. Specific information of what is prohibited is drawn inside or near the symbol.
	The $\bullet$ symbols contains information on what the user is instructed to do. Specific information on the instruction is inside the symbol (in this case the 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 external factors such as malfunctions, mistakes, failures and/or blackouts.

## Warning

<b>Compulsory</b>	This unit should only be used with a standard wall outlet 230VAC for DM-330FXE 120VAC for DM-330FXT If it is used in any other manner electric shock and fire could occur.	<b>Compulsory</b>	Wash skin and or clothes 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 cause injury to the eye.
<b>Compulsory</b>	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.	<b>Prohibited</b>	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-330FX**

## INSTRUCTION MANUAL

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

**ALINCO,INC.**

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

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## Danger

<b>Prohibited</b>	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.	<b>Prohibited</b>	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.
<b>Prohibited</b>	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.	<b>Compulsory</b>	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.
<b>Prohibited</b>	Do not plug/unplug the unit with wet hands. It may easily cause electric shock.	<b>Prohibited</b>	Do not cover the air vent on the chassis or the fan. This may cause extreme heat, fire and damage.
<b>Prohibited</b>	Do not use the unit where there may be flammable gas. This may cause fire and explosion.	<b>Prohibited</b>	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.
<b>Prohibited</b>	Unplug the cable when replacing the fuse. Use the specified fuse only. Using the wrong fuse could cause heat and fire.	<b>Prohibited</b>	Never try to use a car cigarette lighter in the cigarette lighter socket of this product. Otherwise, the product may become damaged.
		<b>Prohibited</b>	Insert the cigarette-plug securely and completely into the socket. Insufficient connection may cause damage to the unit.

## Caution

<b>Compulsory</b>	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.	<b>Prohibited</b>	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.
<b>Prohibited</b>	Never leave the unit within a child's reach. This may injure them or burn their skin.	<b>Prohibited</b>	Never try to use a car cigarette lighter in the cigarette lighter socket of this product. Otherwise, the product may become damaged.
<b>Prohibited</b>	Make sure that the devices that are to be connected meet the specifications of this unit, otherwise it may cause damage to the product.	<b>Prohibited</b>	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.

## 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.

## 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.

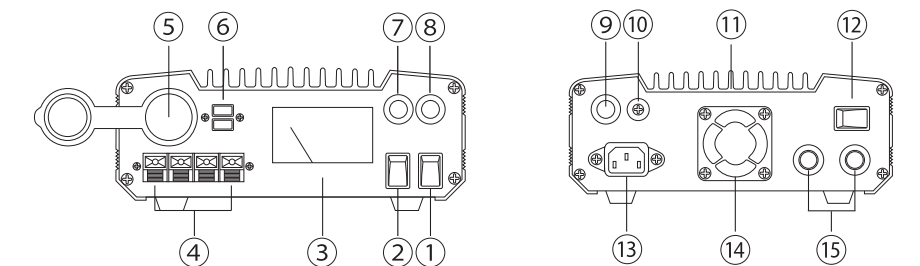
## SPECIFICATIONS

**Input voltage:** 230VAC(DM-330FXE) / 120VAC(DM-330FXT)  
**Output voltage:** 9~15VDC variable, USB 5V  
**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 50mVp-p at rated load  
**Fuse:** 4A (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

## PART NAMES AND FUNCTIONS

Front View

Rear 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.)
- Voltage adjustment:** Adjusts voltage between 9.0 and 15.0 volts. Turn clockwise to increase and center 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)
- Grounding screw:** Used to connect the Earth grounding cable to the unit. (cable is not provided)
- Heat sink:** Do not touch the surface when the unit is in use. Let the unit cool down completely before touching it.
- Voltage fix switch:** The output voltage can be fixed at 13.8V or adjustable by ⑧.
- Power socket:** 230VAC (DM-330FXE) / 120VAC (DM-330FXT)
- Cooling fan:** The fan turns on and off automatically. (internal temperature at 45°C)
- Output terminal:** 30A max. Red positive, black negative.