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

**INTRODUCTION**

Alinco's DM-330MV 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 preset 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 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 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. A current limiting system will protect the unit from overloading.
6. If a short circuit occurs at the output, the unit is protected by a short circuit protection function. Immediately turn off the unit and repair the cause of the short circuit, then turn it back on.
7. Do not use the unit for devices that require high current input at the start, such as motorised equipment. Do not use the unit to charge a car battery.
8. Do not replace a fuse in the presence of any electrical current.
9. Before replacing a fuse make sure the unit is 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. (The unit can be grounded by connecting a grounding cable to the appropriate screw)
11. 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 voltage to the desired output level. When this function is selected, the voltage adjustment control on the front panel will be deactivated to prevent over voltage.

**SPECIFICATIONS**

| Input voltage: | 120VAC (MVT)/230VAC (MV2) |
| Output voltage: | 5-15VDC variable |
| Protection: | short-circuit, Automatic current limiting over 32A |
| Over-current: | 32A (max), 30A (continuous) |
| Ripple: | less than 15V/60-p rated load |
| Fuse: | 8A (MVT)/4A (MV2) |
| Meter: | single volt/current meter, back-lit |
| Dimensions: | 175(W) x 67(H) x 165(D) mm |
| Weight: | approx. 2kg |

**REMOTE CONTROLLER**

The DM-330MV does not include a remote controller. Nor is it available as an optional accessory. It can be easily assembled using the diagram provided. The adjustable voltage ranges from approximately 5-15 volts.

**CAUTION**

* The remote controller must be assembled exactly as the diagram shows. Using SP relays of different values can damage the unit and will void the warranty.
* When the remote controller is connected, the unit must be turned off.
* The maximum length of cable that should be used is 1.5m or 5ft.

**PART NAMES AND FUNCTIONS**

Front View

[Diagram of Front View]

Rear View

[Diagram of 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.
- Preset indicator: Lights up when preset function is activated.
- Protection indicator: Lights up as a warning when the current limiting system is activated.
- Power indicator: Lights up when the unit is turned on.
- 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.
- Noise off-set set control: Adjust to eliminate the pulse noise of the switching circuit. This patented function is specially designed for communication use. (Its effectiveness may vary depending on the frequency and mode.)
- Cooling fan: The fan turns on and off automatically.
- Remote control terminal: By connecting a remote controller, the output voltage can be remotely controlled. Note: When the remote control is connected to the unit, the unit must be turned off. When the remote control is being used the voltage adjustment knob and preset function will be deactivated.
- Preset switch: see 2
- Preset switch: To store the preset voltage, turn this switch to the preset position and adjust the preset voltage to the desired output level.
- Heat sink: Do not touch the surface when the unit is in use. Let the unit cool down completely before touching it.
- Grounding screw: Used to connect the Earth grounding cable to the unit.
- Output terminal: 32A max. Red positive, black negative.
- Power cable: 120VAC outlet (MVT)/230VAC outlet (MV2)
- Fuse: 8A (MVT)/4A (MV2)
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

<table>
<thead>
<tr>
<th>Caution</th>
<th>Indication</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>! Danger</td>
<td>Improper handling presents an immediate danger of death or serious injury.</td>
<td></td>
</tr>
<tr>
<td>! Warning</td>
<td>Improper handling may lead to death or serious injury.</td>
<td></td>
</tr>
<tr>
<td>! Caution</td>
<td>Improper handling presents a risk to physical health or property.</td>
<td></td>
</tr>
</tbody>
</table>

Explanation of symbols

- 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: 120VAC (110VAC/230VAC/240VAC). If it is used in any other manner electric shock and fire could occur.

Never touch the chassis of the unit during use. The surface of the product may become very hot, especially the unit may occur.

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.

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 sunlight, 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 in a secure and horizontal surface. If it is placed on an unstable surface, the unit may drop and cause damage. Otherwise, the product may become damaged. Never try to use a car cigarette lighter in the cigarette lighter socket of this product. Otherwise, the product may become damaged.

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