

# MFJ-4230MV

## 30 Amp Switching Power Supply

### User Manual

#### Specifications and Features:

- 4 to 16 VDC adjustable output, detent at 13.8VDC
- 30 Amps Surge (up to 5 minutes), 25 Amps Continuous
- Light weight, only 3.4 lbs/1.35kg
- Compact, only 5" x 2 1/2" x 6" (W x H x D)
- 0 to 16V and 0 to 32 A selectable backlit meter
- Five-Way binding post for high current radios
- Over Voltage protection
- Over Current protection with "FAULT" LED
- QUIET Internal Cooling Fan with "FAN" LED
- Super Regulation, works with AC input from 85 to 135 VAC (115VAC model) or from 170 to 260 VAC (230VAC model), 47-63Hz
- Ripple and Noise <100mV
- AC Line Fuse( 6.3 Amps)

#### INSTALLATION:

Before plugging in the MFJ-4230MV in an AC outlet make sure that it is the proper input voltage of the power supply. The MFJ-4230MV is factory set for 115V.

Place the MFJ4230MV in a place that does not block the cooling vents on the bottom, sides or back.

The load is connected to the 5-way binding posts on the back:

The **RED** binding post on the **TOP** is **POSITIVE (+)** terminal.

The **BLACK** binding post on the **BOTTOM** is the **NEGATIVE (-)** terminal.

#### OPERATION:

The MFJ-4230 Connect the output and turn the power switch to the 'ON' Position.

Adjust the voltage to the required voltage. The detent on the voltage control is set to 13.8VDC. Be careful not to exceed the voltage rating of the equipment connected to the power supply.

Before you turn the power supply off, turn the radio off as described in the user documentation for the radio. Turn the power supply off by pressing the power switch to the 'OFF' Position

#### PROTECTION:

The cooling fan on the MFJ-4230MV will operate when the unit is turned ON. The speed of the fan varies depending on the DC control settings and the internal temperature. When power supply has been run for a long period especially at higher currents we suggest before turning off the power supply you run the power supply for a short period of time without any load to allow the cooling fan to reduce the temperature.

The MFJ-4230MV will automatically shut off if over 30 amps of current is drawn from the outputs. To reset, turn the unit OFF and wait 20 seconds, then turn the unit back on.

The MFJ-4230MV has a 6.3 amp AC input fuse at the front inside of the unit near the power switch. To replace the fuse:

1. Turn off the unit, unplug and let sit for 15 minutes to allow the high voltage capacitors to discharge.
2. Open the case.
3. Remove the old fuse.
4. Put in a new fuse of the same type size and current rating.
5. Close the case and connect back up.

Changing the voltage from 115VAC to 220VAC is not possible by the user. It is a factory setting.

Do not open the power supply while operating or plugged in. There are high voltages present that can be lethal.

## 12 MONTH LIMITED WARRANTY

MFJ Enterprises, Inc. Warrants to the original owner of this product, if manufactured by MFJ Enterprises, Inc. and purchased from an authorized dealer or directly from MFJ Enterprises, Inc. to be free from defects in material and workmanship for a period of 12 months from date of purchase provided the following terms of this warranty are satisfied.

1. The purchaser must retain the dated proof-of-purchase (bill of sale, canceled check, credit card or money order receipt, etc.) describing the product to establish the validity of the warranty claim and submit the original or machine reproduction of such proof-of-purchase to MFJ Enterprises, Inc. at the time of warranty service. MFJ Enterprises, Inc. shall have the discretion to deny warranty without dated proof-of-purchase. Any evidence of alteration, erasure, or forgery shall be cause to void any and all warranty terms immediately.
2. MFJ Enterprises, Inc. agrees to repair or replace at MFJ's option without charge to the original owner any defective product under warranty, provided the product is returned postage prepaid to MFJ Enterprises, Inc. with a personal check, cashiers check, or money order for **\$12.00** covering postage and handling.
3. MFJ Enterprises, Inc. will supply replacement parts free of charge for any MFJ product under warranty upon request. A dated proof-of-purchase and an **\$8.00** personal check, cashiers check, or money order must be provided to cover postage and handling.
4. This warranty is NOT void for owners who attempt to repair defective units. Technical consultation is available by calling **(662) 323-5869**.
5. This warranty does not apply to kits sold by or manufactured by MFJ Enterprises, Inc.
6. Wired and tested PC board products are covered by this warranty provided only the wired and tested PC board product is returned. Wired and tested PC boards installed in the owner's cabinet or connected to switches, jacks, or cables, etc. sent to MFJ Enterprises, Inc. will be returned at the owner's expense unrepaired.
7. Under no circumstances is MFJ Enterprises, Inc. liable for consequential damages to person or property by the use of any MFJ products.
8. **Out-of-warranty Service:** MFJ Enterprises, Inc. will repair any out-of-warranty product provided the unit is shipped prepaid. All repaired units will be shipped COD to the owner. Repair charges will be added to the COD fee unless other arrangements are made.
9. This warranty is given in lieu of any other warranty expressed or implied.
10. MFJ Enterprises, Inc. reserves the right to make changes or improvements in design or manufacture without incurring any obligation to install such changes upon any of the products previously manufactured.
11. All MFJ products to be serviced in-warranty or out-of-warranty should be addressed to **MFJ Enterprises, Inc., 300 Industrial Park Road, Starkville, Mississippi 39759, USA** and must be accompanied by a letter describing the problem in detail along with a copy of your dated proof-of-purchase.
12. This warranty gives you specific rights, and you may also have other rights which vary from state to state.