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|---|--------------------------|----|--------------------------------|
| 1 | POWER SWITCH | 8 | MAIN DC OUT (+) |
| 2 | POWER ON INDICATOR | 9 | MAIN DC OUT (-) |
| 3 | VOLTAGE METER | 10 | FAST CONNECTOR |
| 4 | FAN ON INDICATOR | 11 | AC INPUT SOCKET |
| 5 | CURRENT METER | 12 | 110V-220V INPUT VOLTAGE SELECT |
| 6 | CIGARETTE LIGHTER SOCKET | | |
| 7 | DC ADJUST KNOB | | |

MSE

MS-450A

45 Amp DC Switching Power Supply User Manual

Specifications and Features:

- 40 Amps Continuous at 13.8 VDC.
- 45 Amps Maximum
- Light weight , only 8.8 lbs
- Compact, only 8.7" 5.7" * 8.9" (W*H*D)
- Five-Way binding post for high current radios/ Cigarette Lighter
- Over Voltage protection: 16V +/- 0.5V
- Ripple & Noise: Less than 0.3%
- Over Current protection
- QUIET INTERNAL Cooling Fan with "fan on" LED
- Input Voltage: Selectable AC input voltage
 - 110 Vac at 47-63Hz
 - 220 Vac at 47-63Hz
- Super Regulation:
Work with AC input from 85 to 135 VAC or from 170 to 260 VAC.
- Polarity: Negative
- AC Line Fuse (10 Amps)

Instruction Manual

Congratulations on your purchase of Mstronic' MS-450A switching power supply! Over 20 years of industry expertise was utilized in designing and building this quality power supply.

Mstronic' switching power supplies are a perfect choice for applications involving communications, mobile sound systems, test equipment, portable displays, DC lighting systems and security applications.

These feature rich power supplies offer short circuit and over voltage protection, continuous output rated power, precision regulation of output voltage, a low peak to peak ripple of less than 0.3% and high surge capacity.

Complete with convenient binding posts output terminals and heavy duty, power-coated metal cabinets these compact and sleek power supplies will meet all your DC power supply needs.

INSTALLATION:

Before **plugging in the MS-450A in an AC outlet make sure that the proper input voltage is selected on the rear of the unit.** Select 115 for 100/110/120 AC operation or 230 for 200/220/240 AC operation. MS-450A is factory set for 230V. The loads can be connected to the 5-way binding posts or cigarette lighter. If any device requires more than 7 amps you must use the binding posts. The cigarette lighter socket output has a maximum of 7 amps.

OPERATION:

The DC Adjustment control on the front panel is used to set the DC output voltage of the MS-450A from 9 to 15 volts. For most HF and VHF radios, set the output 13.8V dc.

FAN:

The cooling fan on the MS-450A will operate when the unit is turned ON. The speed of the fan varies depending on the temperature control circuit. The speed of the fan will dictate how bright the yellow LED indicator is.

METER INDICATOR:

The current meter on the MS-450A indicates the total current being drawn by the accessories connected to the power supply. The voltage meter on the MS-450A indicates the voltage set for the 5-way binding post outputs, the cigarette socket output, and the quick connector output. Both meters will be lit when the unit is turned ON.

PROTECTION:

The MS-450A will automatically shut off if over 50 amps of current is drawn from its outputs. To reset, turn the unit OFF, check accuracy of the load, then wait 20 seconds and turn the unit back on.

This model has a 110Volt/10amp or 220Volt/5Amp fuse in the power cord connection on the back of the unit. The MS-450A has two slots for these fuses. The slot closest to the unit locks the fuse in place and then becomes part of the circuit. The slot at the rear of the tray is a place to store a spare fuse for emergency case.

Note:

1. WARRANTY IS VOID IF VOLTAGE SELECTOR IS CHANGED
2. When power supply has run for a long period, we suggest running the MS-450A for a short period of time without any load to allow the cooling fan to reduce the case temperature.
3. DANGEROUS VOLTAGE INSIDE. DO NOT OPEN.

Warranty:

Mstronic Co., Ltd. offers a limited one year warranty on their power supplies.