

**Kramer Electronics, Ltd.**



# **USER MANUAL**

**Model:**

**VA-50P**

*Power Supply*

**Contents**

|          |                                 |          |
|----------|---------------------------------|----------|
| <b>1</b> | <b>Introduction</b>             | <b>1</b> |
| <b>2</b> | <b>Getting Started</b>          | <b>1</b> |
| <b>3</b> | <b>Overview</b>                 | <b>1</b> |
| <b>4</b> | <b>Your Power Supply</b>        | <b>2</b> |
| <b>5</b> | <b>Using the Power Supply</b>   | <b>3</b> |
| <b>6</b> | <b>Technical Specifications</b> | <b>4</b> |

**Figures**

|                                              |   |
|----------------------------------------------|---|
| Figure 1: VA-50P Power Supply                | 2 |
| Figure 2: Connecting the VA-50P Power Supply | 3 |

**Tables**

|                                                              |   |
|--------------------------------------------------------------|---|
| Table 1: Features and Functions of the VA-50P Power Supply   | 2 |
| Table 2: Technical Specifications of the VA-50P Power Supply | 4 |

## 1 Introduction

Welcome to Kramer Electronics (since 1981): a world of unique, creative and affordable solutions to the infinite range of problems that confront the video, audio and presentation professional on a daily basis. In recent years, we have redesigned and upgraded most of our line, making the best even better! Our 300-plus different models now appear in 8 Groups<sup>1</sup>, which are clearly defined by function.

Congratulations on purchasing your Kramer **VA-50P Power Supply**, which is ideal for any audio video system using multiple 12V operated products, as well as battery replacement for field/battery operated equipment.

The package includes the following items:

- **VA-50P Power Supply** unit
- Vertical standing bracket<sup>2</sup>
- 6 DC-to-DC cables
- Power cord
- This user manual<sup>3</sup>

## 2 Getting Started

We recommend that you:

- Unpack the equipment carefully and save the original box and packaging materials for possible future shipment
- Review the contents of this user manual
- Use Kramer high performance high resolution cables<sup>4</sup>

## 3 Overview

The Kramer **VA-50P Power Supply**:

- Is an efficient six outlet universal switching power supply that can output 12V DC with up to 500mA per output (but not exceeding 2A total)
- Is designed to operate Kramer products that normally use an external 12V DC power transformer

---

1 GROUP 1: Distribution Amplifiers; GROUP 2: Video and Audio Switchers, Matrix Switchers and Controllers; GROUP 3: Video, Audio, VGA/XGA Processors; GROUP 4: Interfaces and Sync Processors; GROUP 5: Twisted Pair Interfaces; GROUP 6: Accessories and Rack Adapters; GROUP 7: Scan Converters and Scalers; and GROUP 8: Cables and Connectors

2 To safely stack multiple VA-50P units for use in non-rack applications

3 Download up-to-date Kramer user manuals from the Internet at: <http://www.kramerelectronics.com>

4 The complete list of Kramer cables is on our Web site at <http://www.kramerelectronics.com>

- Can be secured in a rack using the model RK-50R kit that holds two **VA-50P** units and requires two vertical spaces in a standard 19" rack
- Can save valuable space on power strips, by replacing up to six wall transformers

Take care to ensure that the polarity of the unit which is to be connected matches that of the **VA-50P**, that is, that positive = center pin.

To achieve the best performance we recommend positioning your **VA-50P** in a location free from moisture and away from excessive sunlight and dust.

## 4 Your Power Supply

Figure 1 and Table 1 define the **VA-50P Power Supply**:

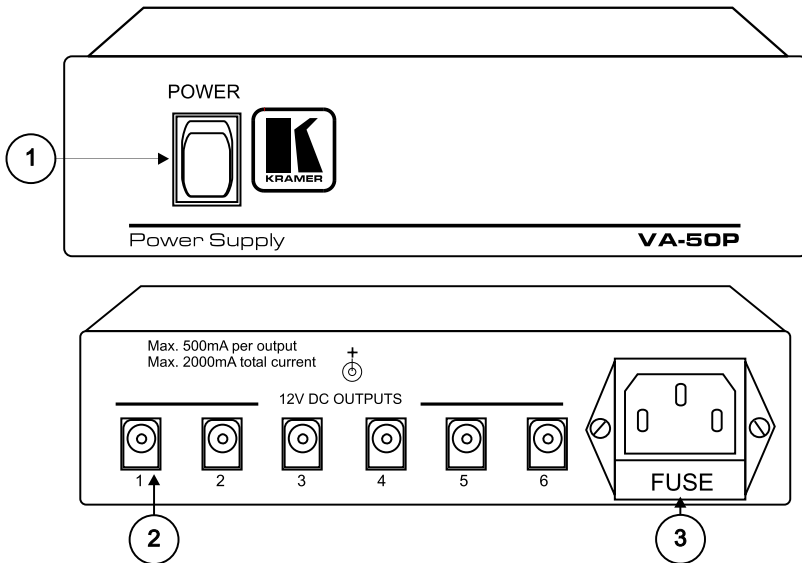


Figure 1: VA-50P Power Supply

Table 1: Features and Functions of the VA-50P Power Supply

| # | Feature                   | Function                                                                                                         |
|---|---------------------------|------------------------------------------------------------------------------------------------------------------|
| 1 | POWER Switch              | Illuminated switch for turning the unit ON or OFF                                                                |
| 2 | 12V DC Power OUTPUTS      | Connect to the power inlet on a 12VDC unit (from 1 to 6). Maximum 500mA per output, maximum 2000mA total current |
| 3 | Power Connector with FUSE | AC connector enabling power supply to the unit                                                                   |

## 5 Using the Power Supply

To use your **VA-50P**, as the example in Figure 2 illustrates, do the following:

1. Connect up to 6 power outlets, using DC-to-DC cables<sup>1</sup>, as follows:
  - Connect the **12V DC OUTPUT 1** power outlet to the **12V DC** power inlet, for example, on a Kramer **FC-14 RGBHV to Component Transcoder**
  - Connect the **12V DC OUTPUT 2** power outlet to the **12DV DC** power inlet, for example, on a Kramer Tools **810 Color Bar / Audio Generator**
  - Connect the **12V DC OUTPUT 3** power outlet to the **12DV DC** power inlet, for example, on a Kramer Pico Tools **PT102V** unit
  - Connect the **12V DC OUTPUT 4** power outlet to the **12DV DC** power inlet, for example, on a second Kramer Pico Tools **PT102V** unit
  - Connect the **12V DC OUTPUT 5** power outlet to the **12DV DC** power inlet, for example, on a third Kramer Pico Tools **PT102V** unit
  - Connect the **12V DC OUTPUT 6** power outlet to the **12DV DC** power inlet, for example, on a Kramer Tools **VP-100** unit
2. Connect the power cord to the mains electricity.

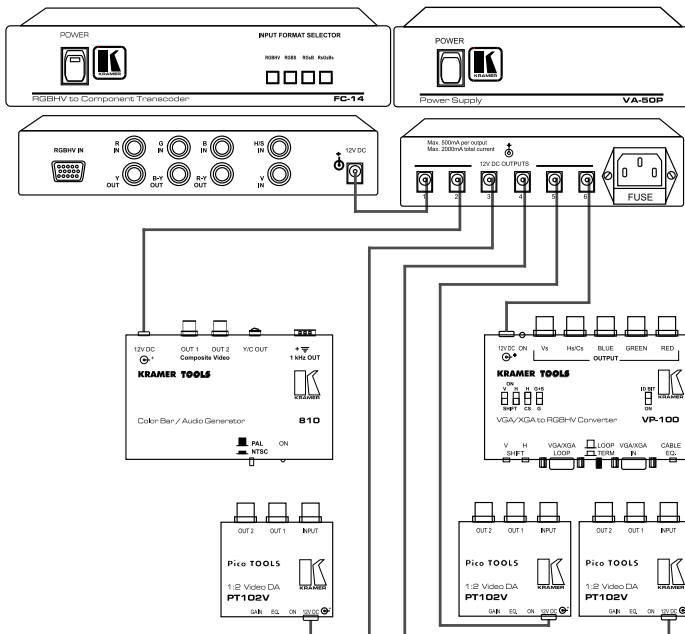


Figure 2: Connecting the VA-50P Power Supply

<sup>1</sup> Supplied with the VA-50P

## 6 Technical Specifications

*Table 2: Technical Specifications<sup>1</sup> of the VA-50P Power Supply*

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| Input Power Source: | 230 VAC, 50/60 Hz., (115VAC, U.S.A.) 30 VA                                   |
| Outputs:            | 6 x 12VDC outputs, maximum 500mA per output,<br>maximum 2000mA total current |
| Dimensions:         | 16.5cm x 12cm x 4.5cm (6.5" x 4.7" x 1.7"), W, D, H                          |
| Weight:             | 1 kg. (2.2 lbs.) approx.                                                     |
| Accessories:        | Power cord, vertical stacking bracket, 6 DC-to-DC cables                     |
| Options:            | 19" rack adapter RK-50R                                                      |

---

<sup>1</sup> Specifications are subject to change without notice

---

## LIMITED WARRANTY

Kramer Electronics (hereafter *Kramer*) warrants this product free from defects in material and workmanship under the following terms.

### HOW LONG IS THE WARRANTY

Labor and parts are warranted for three years from the date of the first customer purchase.

### WHO IS PROTECTED?

Only the first purchase customer may enforce this warranty.

### WHAT IS COVERED AND WHAT IS NOT COVERED

Except as below, this warranty covers all defects in material or workmanship in this product. The following are not covered by the warranty:

1. Any product which is not distributed by Kramer, or which is not purchased from an authorized Kramer dealer. If you are uncertain as to whether a dealer is authorized, please contact Kramer at one of the agents listed in the web site [www.kramerelectronics.com](http://www.kramerelectronics.com).
2. Any product, on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from:
  - i) Accident, misuse, abuse, neglect, fire, water, lightning or other acts of nature
  - ii) Product modification, or failure to follow instructions supplied with the product
  - iii) Repair or attempted repair by anyone not authorized by Kramer
  - iv) Any shipment of the product (claims must be presented to the carrier)
  - v) Removal or installation of the product
  - vi) Any other cause, which does not relate to a product defect
  - vii) Cartons, equipment enclosures, cables or accessories used in conjunction with the product

### WHAT WE WILL PAY FOR AND WHAT WE WILL NOT PAY FOR

We will pay labor and material expenses for covered items. We will not pay for the following:

1. Removal or installations charges.
2. Costs of initial technical adjustments (set-up), including adjustment of user controls or programming. These costs are the responsibility of the Kramer dealer from whom the product was purchased.
3. Shipping charges.

### HOW YOU CAN GET WARRANTY SERVICE

1. To obtain service on you product, you must take or ship it prepaid to any authorized Kramer service center.
2. Whenever warranty service is required, the original dated invoice (or a copy) must be presented as proof of warranty coverage, and should be included in any shipment of the product. Please also include in any mailing a contact name, company, address, and a description of the problem(s).
3. For the name of the nearest Kramer authorized service center, consult your authorized dealer.

### LIMITATION OF IMPLIED WARRANTIES

All implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the length of this warranty.

### EXCLUSION OF DAMAGES

The liability of Kramer for any effective products is limited to the repair or replacement of the product at our option. Kramer shall not be liable for:

1. Damage to other property caused by defects in this product, damages based upon inconvenience, loss of use of the product, loss of time, commercial loss; or:
2. Any other damages, whether incidental, consequential or otherwise. Some countries may not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from place to place.

**NOTE:** All products returned to Kramer for service must have prior approval. This may be obtained from your dealer. This equipment has been tested to determine compliance with the requirements of:

|           |                                                                                                                                     |
|-----------|-------------------------------------------------------------------------------------------------------------------------------------|
| EN-50081: | "Electromagnetic compatibility (EMC);<br>generic emission standard.<br>Part 1: Residential, commercial and light industry"          |
| EN-50082: | "Electromagnetic compatibility (EMC) generic immunity standard.<br>Part 1: Residential, commercial and light industry environment". |
| CFR-47:   | FCC Rules and Regulations:<br>Part 15: "Radio frequency devices<br>Subpart B – Unintentional radiators"                             |

### CAUTION!

- ☒ Servicing the machines can only be done by an authorized Kramer technician. Any user who makes changes or modifications to the unit without the expressed approval of the manufacturer will void user authority to operate the equipment.
- ☒ Use the supplied DC power supply to feed power to the machine.
- ☒ Please use recommended interconnection cables to connect the machine to other components.



---

**For the latest information on our products and a list of Kramer distributors, visit our Web site: [www.kramerelectronics.com](http://www.kramerelectronics.com), where updates to this user manual may be found. We welcome your questions, comments and feedback.**

