

User Guide

P2-105 Operation Manual

Version 0.3

S2 SWITCHER SERIES OPERATION MANUAL

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1 DISCLAIMER

This product is intended for professional and/or home use. This product is not intended for use in a medical environment and does not have the required certifications for such use. Similarly, use aboard any aircraft or spacecraft while in flight or as an adjunct to any surface, airborne or marine navigation system or any offshore marine activity, including control of any watercraft, or any use similar to those specifically herein mentioned is prohibited. Use in the aforementioned circumstances would require additional testing and certification.

You have not become the owner of any software - you have merely purchased the right to use the software. You may make one copy of the software for your own use. Other copies will be deemed a breach of copyright.

No warranty is made either expressed or implied including but not limited to any implied warranties of merchantability or fitness for a particular purpose. In no event shall the supplier or manufacturer of this product be liable for errors found within, or be liable for any direct, indirect or consequential damages or loss in connection with the purchase or use of this hardware software or manual. The sole and exclusive liability to the supplier and manufacturer regardless of the form of action shall not exceed the replacement cost of the materials described herein.

By using this equipment you have indicated that you have agreed to the terms listed above. If you do not wish to agree or the above terms are contrary to your conditions of purchase you may return the equipment, unused, to your supplier. All trademarks and copyrights are acknowledged. E&OE.

1.1.1 Regulatory Agency Acceptance European 'CE' Mark Statement

Emissions: BS EN 61000-6-3:2001 (Generic Immunity Standard for Residential, Commercial and Light Industrial)
Immunity: BS EN 61000-6-1:2001 (Generic Immunity Standard for Residential, Commercial and Light Industrial)

1.1.2 FCC Statement

Class A Device: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide a reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the Instruction Manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Caution: This equipment is intended for use in the manner prescribed in the Instruction Manual. Any user changes or modifications not expressly approved by TV

One Multimedia Solutions could void the user's authority to operate the equipment. Connecting this equipment to external devices requires no specially shielded cabling

for FCC compliance. The Instruction Manual shows or describes the proper connection of this equipment for operation that insures FCC compliance.

Direct all inquiries regarding FCC compliance to:

TV One Multimedia Solutions
1350 Jamike Drive
Erlanger, KY 41018
859.282.7303
859.282.8225 (Fax)

1.1.3 Manual Version Information

Version: 0.3

Release Date: May, 2009

1.1.4 Manual Copyright Notice

This Operation Manual is the intellectual property of TV One, ©2007-2008. No portion of this manual may be copied or reproduced in any manner or by any means, including, but not limited to electronic and electro-mechanical, without the express written permission of TV One.

2 IMPORTANT SAFETY INSTRUCTIONS

1. Read these Instructions
2. Keep these Instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water
6. Clean only with a dry cloth
7. Do not block any ventilation openings, Install in accordance with the manufacture's instructions
8. Do not install near any heat sources such as radiators, hear registers, stoves, or other apparatus that produce heat.
9. Do not defeat the safety purpose of a polarized or grounding type plug, A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety, if the provided plug does not fit into your outlet, consult and electrician for a replacement plug.
10. Protect the power cord from being walked on or pinched particularly at the plug.
11. Only use attachments / accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.



13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. Liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate properly, or has been dropped.
15. The apparatus shall not be exposed to dripping or splashing ensure that no objects filled with liquids, such as vases, shall be placed on the apparatus.
16. "WARNING" and the following or equivalent, "To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture".
17. "CAUTION" and the following or equivalent, "There servicing instructions are for use by qualified service personnel do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so".

2.1 Conventions



The Exclamation symbol indicates important operating and maintenance instructions.



The lightning flash indicates the risk of electric shock to people.

2.2 Intellectual property

Some IC chips in this product include confidential and/or trade secret property. Therefore you may not copy, modify, adapt, translate, distribute, reverse engineer, reverse assemble or decompile the contents thereof.

3 PRODUCT P2-105

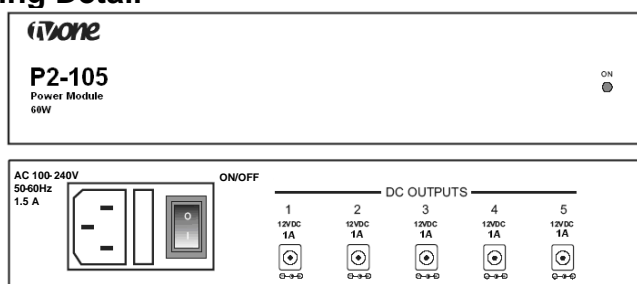
3.1 Functional Description

The P2-105 Power Supply is a power distribution unit designed to replace up to 5 of the 12V adaptors for use with the C2-1000, C2-2000 or S2 Series units where rated at less than 1A.

Each of the outputs are provisioned by a lockable 12V power outlet and protected by a 1Amp self resetting fuse. The rear of the unit provides a mains ON/OFF switch and mains inlet fuse.

The Front of the unit provides a single LED indicator, which shows that the internal 12V power is active.

3.2 Outline Drawing Detail



3.3 Unit Specification

| Output | | |
|---------------|--------------------------|--|
| | DC Voltage | 12V dc |
| | Rated Current | 0 to 5 Amps |
| | Rated Power | 60W |
| | Ripple & Noise (max) | 200 mV p-p |
| | Voltage Tolerance | ±5.0% |
| | Line Regulation | 11.4V to 12.6V |
| | Load Regulation | ±1.0% |
| | Setup, rise time | 130ms, nominal line V |
| Input | | |
| | Voltage Range | 100 to 240V ac |
| | Frequency Range | 47 to 63 Hz |
| | Efficiency (typically) | 78% nominal |
| | AC current (typ) | 1.6A Max |
| | Inrush Current (typ) | 30A / 100Vac 60A / 230Vac Coldstart at 25°C full load |
| | Leakage Current | <3.5mA |
| Protection | | |
| | Over current Protection | 6.12A to 9.6A from PSU, 1.5A per O/P |
| | Short Circuit Protection | auto recovery on fault removal |
| | Over Voltage | 110% to 140% |
| Environmental | | |
| | Working temperature | 0 to +50°C external ambient (at full load, with no forced air cooling) |
| | Working Humidity | 20 to 80% RH (non condensing) |
| | Storage Temp / humidity | -20 to +60°C 10 to 95% RH |

4 TROUBLESHOOTING AND TECHNICAL SUPPORT

If problems are experienced, please read through the symptom topics below in order to resolve the problem. After doing so, if you still need to, contact Technical Support at <http://www.tvone.com/support>. Please have the following details of the problem handy:

Whether the problem happens only at specific times or has only just started occurring (and what other things have changed at the same time).

The Unit model number and the serial number which can both be found on the base of the unit.

4.1 Your unit does not power up

When powered, you should see one LED illuminated on the front panel. If this is not the case check that the power supply is plugged in and switched on.

4.2 There is no output from one or some of the 12V power outputs.

Ensure that the unit connected requires no more than 12V @ 1Amp. Each of the outputs of the unit is fused with self resetting fuses, overloading an output will cause the fuse to blow.

5 RETURN PROCEDURE

Before returning your unit for repair, there are several checks you can make yourself to make sure the problem is actually caused by a failure.

5.1 Are you sure there's a fault?

Many 'faults' are due to incorrect set-up or use so a simple checklist is provided below to help you identify potential problems.

Set the unit up with your equipment as described in this manual and run through the checklist. This will hopefully determine whether or not the unit is actually faulty and prevent units from being returned unnecessarily.

Check the Troubleshooting tips of this manual and check out the various FAQ (Frequently Asked Questions) listings on the support website, <http://www.tvone.com/support>, which shows the latest Hints, Tips and Solutions.

Don't presume it is the unit that is causing the problem. Check that the equipment being used with it is fully working and setup correctly – bypass the unit if possible by connecting the video source directly to the video display.

Check the AC power. Is it present and is the unit turned on? Check that all cables are properly plugged in and are not damaged and then make certain that all equipment connected to the unit is working properly.

Perhaps you have a “frozen” unit and you cannot change an input nor exit from the current task. In that case, a simple 'Factory Reset' of the product may sort the problem out. See earlier section on Front panel buttons to do this. Note that all user-settings will be lost following an engineering reset.

It is also worth ensuring that the latest firmware is installed in the unit – although, again, user settings are lost during a firmware update.

5.2 To return a unit for repair

First contact TV One using the <http://www.tvone.com/support> website. Support personnel will determine whether a return to the factory is the appropriate solution. If that's the case, a Return Authorization Number will be issued. You should provide the following information for each unit:

- Product type
- Serial number of the faulty unit (this is on the underside of the unit)
- Full details of fault
- Invoice number (if available)

Units should be returned via insured carrier or registered mail (thus allowing a trace to be made if the Processor is lost in transit), with shipping costs and insurance arranged at your own risk and expense. Goods in transit are the responsibility of the sender and the supplier will not be responsible for transit losses.

Please clearly state the return number on the outside packaging and on any accompanying documentation. This will greatly speed up processing.

IMPORTANT: DO NOT return a unit for warranty repair without first obtaining a Return Authorization Number. No action will be taken on a unit returned in warranty for repair without a Return Authorization Number.

6 WARRANTY POLICY

LIMITED WARRANTY – With the exceptions noted in the next paragraph, TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a period of two years from the date of purchase. Should this product, in TV One's opinion, prove defective within this warranty period, TV One, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of TV One. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

Items integrated into TV One products that are made by other manufacturers, notably computer hard drives and liquid crystal display panels, are limited to the term of the warranty offered by the respective manufacturers. Such specific warranties are available upon request to TV One.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from TV One and return the product to a location designated by TV One, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to two years from the date of purchase. TV One assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

TV One makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of TV One with respect to any defective products will be limited to the repair or replacement of such products. In no event shall TV One be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

7 CONNECTOR PINOUTS

7.1 Power connector

DC 12V



12V DC Center Positive

8 CONTACT INFORMATION

Should you have any questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location shown below:

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