



Connect with Confidence

MultiView Series **Mini Dense Pack Power Supply** Quick Reference & Setup Guide



Magenta Research

128 Litchfield Road, New Milford, CT 06776 USA
(860) 210-0546 FAX (860) 210-1758
www.magenta-research.com

5310155-01 Rev 01

Magenta Research

128 Litchfield Road, New Milford, CT 06776 USA
(860) 210-0546 FAX (860) 210-1758
www.magenta-research.com

**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS**

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

EUROPEAN UNION DECLARATION OF CONFORMITY

The manufacturer declares that this product meets the requirements of EU Directive 89/336/EEC for EMC and LVD safety for ITE 73/23/EEC.

International customers AC mains cord supplied with unit must conform to IEC G0227 designation H03UUV-F or H03VVH2-F, conductors shall be at least .75mm² cross-sectional area (18 AWG).



Contents

Chapter	Page
1. Specifications.....	3
2. Introduction	4
2.1 Overview.....	4
2.2 Supplied Cabling	4
3. Setup and Installation.....	5
3.1 Set Up	5
3.2 Connections on the Mini Dense Pack.....	6
4. Troubleshooting.....	7
4.1 Common Problems	7
Appendix A. Cabling Pinouts.....	8

1. Specifications

Cable Required: DC coaxial to 3 position Phoenix 18 AWG

Compliance: EMC, CE, FCC Class A

Connectors: (6) Phoenix 3 pos. power ports,
(1) Switched and fused—IEC 320 AC inlet

Temperature

Tolerance: Operating: 32 to 104°F (0 to 40°C);
Storage: -4 to +140°F (-20 to +60°C)

Humidity

Tolerance: Up to 80% non-condensing

Enclosure: Powder Coated Steel

Power: 90-240 VAC 47 –63Hz
Consumption: 150 watts maximum

Output: 5 Volts DC at 10 amps maximum
12 Volts DC at 4.2 Amps maximum

Size: 7.25" W X 1.75"H X 6.75"D (18.4 cm X 4.45 cm X 17.1 cm)

Weight: 3 Lbs (1.36 Kg)

Accessories: 1U dual rack mount kit (PN: 400R3379)
DC coaxial cable with tinned conductors PN 8450333

2. Introduction

2.1 Overview

Magenta's MultiView™ series Mini Dense Pack PS is a small desktop or rack mount (with optional kit) central power supply solution primarily for MultiView products. Featuring dual 5VDC and 12VDC outputs, the Mini Dense Pack power supply can also be used to power non Magenta Research products.

This manual covers the Magenta MultiView™ Mini Dense Pack power supply set up and operation.

WARNING

Observe proper polarity when connecting devices . Reversing polarities or connecting to the wrong voltage may damage the Mini Dense Pack and or the attached device.

Generally, the positive (+) conductor has a white line.

Always verify plus/minus cable conductors before connection to the Mini Dense Pack.

2.2 Supplied Cabling

The MultiView™ Series Mini Dense Pack is supplied with 6 six foot DC power cables for use with MultiView series equipment. Additional cables may be ordered with part number 8450333.

For customers in North America, an IEC320 AC cord is supplied. Non US customers need to supply a suitable IEC power mains cord.

3. Setup and Installation

3.1 Set Up

Install the unit as a desktop or rack mount (with optional rack mount kit). Ensure unit has adequate ventilation around it.

Plug AC cord into corresponding AC mains outlet.

Connect 5VDC and/or 12VDC devices using supplied 3 position captive screw connectors. Both 5VDC and 12VDC voltages may be used simultaneously. No internal configurations are necessary.

CAUTION:

Observe proper polarity when connecting devices . Reversing polarities or connecting to the wrong voltage may damage the Mini Dense Pack and or the attached device.

Generally, the positive (+) conductor has a white line.

Always verify plus/minus cable conductors before connection to the Mini Dense Pack.

Total output power capacity is over 100 Watts and each port can provide power up to the following levels:

- 12 Volts DC @ 700 mA (8.4W)
- 5 Volts DC @ 1.67 A (8.35W).

Up to 100 watts of power can be supplied by any combination of ports so long as the maximum current rating for any given port is not exceeded.

Status LEDs on each port indicate 5VDC and 12VDC operation (OK) as well as over current limits exceeded (Fault). Additionally, when the unit has reached 90% capacity of either 5 or 12 Volts a front panel LED indicates this.

3.2 Connections on the Mini Dense Pack

The Mini Dense Pack can service multiple devices on a single port **as long as the total port power rating is not exceeded**. Please reference individual device power ratings to determine the total number of devices that can be powered on each port as well as the entire unit.

Each port of the dense Pack is protected by the means of a self resetting current limiting fuse.

Over current sensing will cause the fuse to open, removing the port's load from the power supply. Once over current situation is resolved, the fuse once again will allow normal operation.

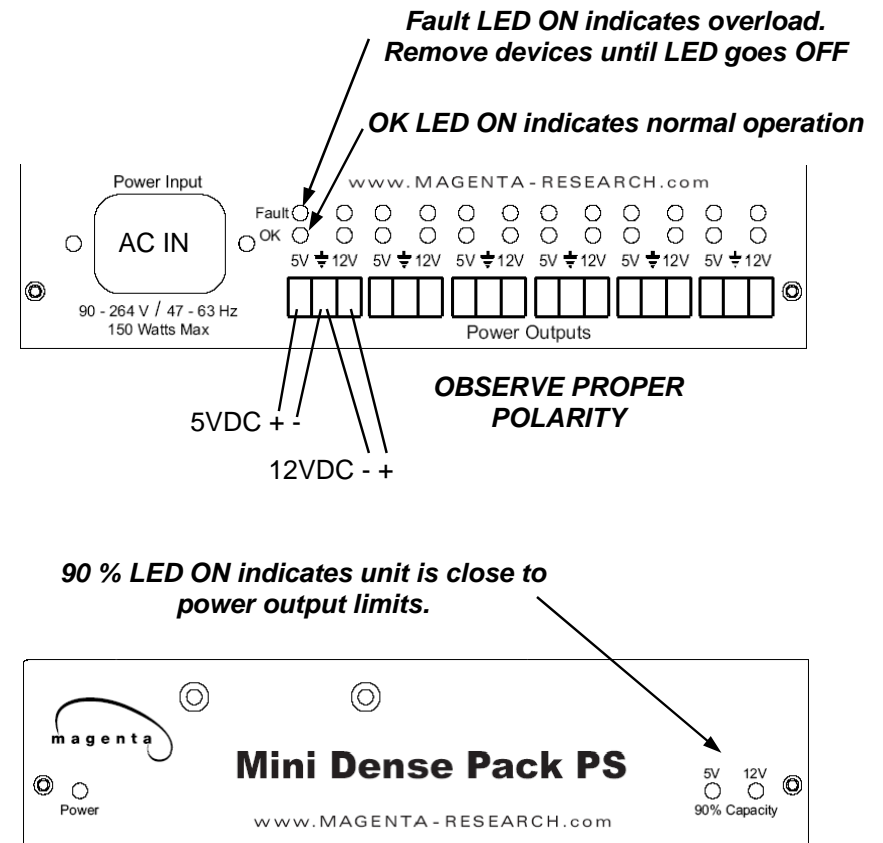


Figure 3-1. Cable Connections

4. Troubleshooting

4.1 Common Problems

In most cases, nearly every issue with the MultiView™ Series can be resolved by checking the AC mains and DC connections to each of the MV units.

Problem: No power LED at Mini Dense Pack.

Solution:

- Check AC connection at both unit and at outlet
- Ensure Mini Dense Pack is plugged in and outlet is live.
- Check fuse at AC switch inlet.

Problem: Powered Unit shuts off after period of time

Solution:

- Over current situation may be present, causing DC port protection device to shut down port. Check DC cable for shorts or mis-pining.

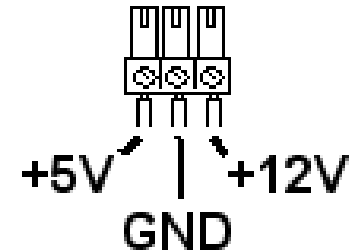
Problem: Mini Dense Pack turned on, but no or low voltage at outputs.

Solution:

- Check for unit load exceeding units maximum rating.
- Check for over temperature condition (lack of rack ventilation).
(power supply entered thermal shutdown)
- Check for cabling issues (one output shorted to another output)

Appendix A. Cabling Pinouts

Mini Dense Pack End



MultiView Device End

