



Installation and Operation Guide

XX217-00-00



FMC-PS Power Supply for FMC-RK Rack-Mount Card Cage



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Dear Valued Customer:

Thank you for selecting Vicon systems and products for your video needs.

Since Vicon's beginning in 1967, our only business has been the design, engineering, and production of the highest quality video systems and equipment for use in a wide variety of security, safety, control, surveillance, and communication applications.

We stand behind the quality and dependability of every product with an industry leading Beneficial Use warranty.

If you are not satisfied with a Vicon product or service, I would like to know. Your complete satisfaction is the mission of every Vicon employee.

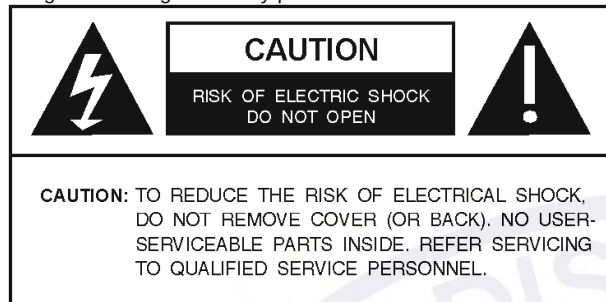
Sincerely,

Kenneth M. Darby
President

Important Safeguards – Indoor Use

GRAPHIC SYMBOL EXPLANATION

The lightning bolt symbol alerts the user to the presence of dangerous voltage that may present the risk of electric shock.



The exclamation point symbol alerts the user to the presence of important operating and maintenance instructions.

WARNING

To reduce a risk of fire or electric shock, do not expose this product to rain or moisture.

- 1. Read Instructions** - Read all safety and operating instructions before the product is operated.
- 2. Retain Instructions** - Retain all safety and operating instructions for future reference.
- 3. Heed Warnings** - Pay attention to all product warnings.
- 4. Follow Instructions** - Follow all operating instructions.
- 5. Installation and Wiring** - The equipment shall be installed and wired in accordance with the National Electrical Code, ANSI/NFPA 70.
- 6. Cleaning** - (Do not use caustic, abrasive or aerosol cleaners)
 - a) For units that CAN BE DISCONNECTED from the power source, use a damp cloth for cleaning.
 - b) For units that CANNOT BE DISCONNECTED from the power source, use a damp cloth for cleaning and do not allow moisture or liquids to enter vents.
- 7. Attachments** - Use only UL Listed Vicor recommended attachments to prevent unit damage and personal injury.
- 8. Water and Moisture** - Use only products designed for outdoor environments where they will be exposed to water or moisture.
- 9. Accessories** - Do not place the unit on an unstable surface to avoid falling. Use only UL Listed Vicor recommended mounting accessories.
- 10. Ventilation** - Do not block ventilating slots and openings as they ensure reliable operation. Do not place the unit near a heat source or into an enclosure unless recommended by Vicor.
- 11. Grounding** - Only products equipped with a 3-prong grounded plug should be inserted into a grounded power outlet. Contact an electrician to replace an obsolete outlet. Do not force a plug into a non-grounded outlet.
- 12. Power Cord Protection** - Power supply cords should not be routed in trafficked areas or in tight spaces where they will be pinched or used to bear weight. Allow some slack in the cord where it enters the unit.

13. Lightning - Disconnect the product from its power source and cable system when possible to prevent damage due to lightning and power-line surges.

14. Power Lines - Do not locate outside cables over power or utility lines where they can fall and make direct contact. Contact with power lines can be fatal.

15. Overloading - Do not overload wall outlets and extension cords to prevent risk of fire and electric shock.

16. Object and Liquid Entry - Never probe through, or spill liquid into, enclosure openings to prevent risk of fire or electric shock.

17. Servicing - Refer all servicing to qualified service personnel.

18. Damage Requiring Service - Obtain service when:

- a) The power-supply cord or plug is damaged.
- b) Objects have fallen or liquid has been spilled into the product.
- c) The product is not designed for outdoor use and has been exposed to water or moisture.
- d) The product does not operate per the operating instructions. Perform Vicor recommended adjustments, modifications and troubleshooting only to avoid unit damage and personal injury.
- e) The product has been dropped.
- f) The product shows a significant change in performance.

19. Replacement Parts - Use only Vicor specified replacement parts or an approved equivalent to prevent unit damage and injury.

20. Safety Check - Request safety checks to be performed following repair or maintenance to verify proper operation.

21. ESD Precaution - Take all normal electrostatic discharge precautions to avoid component damage during installation and operation.

22. For 230 VAC Devices Only - When the disconnect device is not incorporated in the equipment or when the plug on the power supply is intended to serve as the disconnect device, follow the guidelines below:

- a) For permanently connected 230 VAC units, a readily accessible disconnect device must be incorporated into the site wiring.
- b) For 230 VAC units with a plug, the outlet must be installed near the unit and be easily accessible.

23. For Devices Requiring a Separate Power Supply - All devices requiring a separate power supply shall be powered by a UL Listed, Class 2 Power Supply.

24. Lithium Batteries Only:

WARNING

Fire and burn hazard. Do not recharge, disassemble, heat above 212°F or incinerate. Keep battery out of reach of children and in original package until ready to use. Dispose of used batteries promptly.

Risk of explosion if battery is replaced by incorrect type. Dispose of used batteries according to the instructions.

Important Safeguards – Indoor Use (Cont)

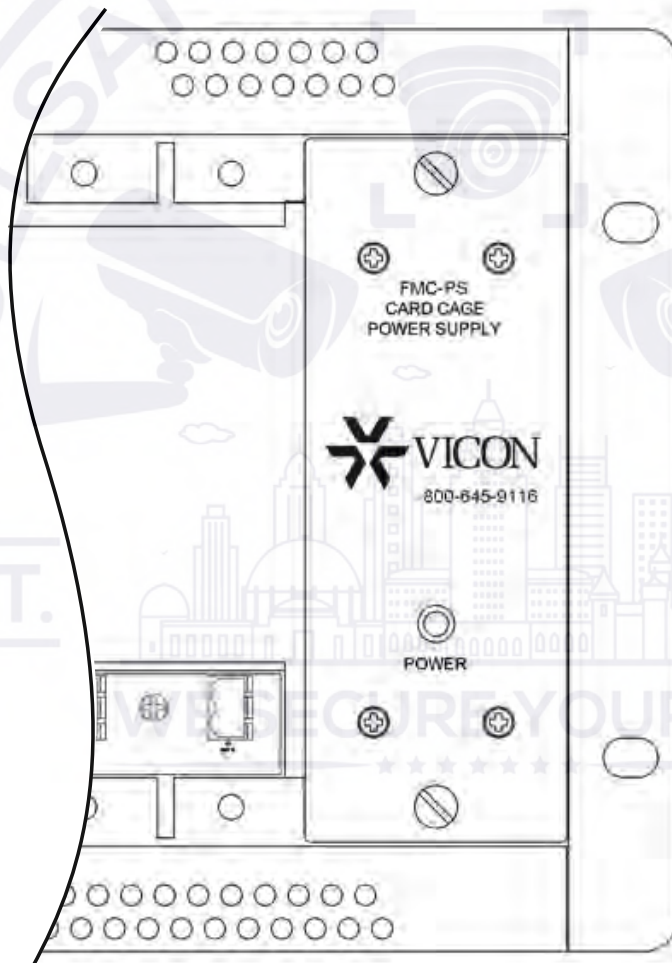
25. For Rack-Mounted Units Only – The following precautions apply to all rack-mounted units.

- a) **Elevated Operating Ambient** - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- b) **Reduced Air Flow** - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- c) **Mechanical Loading** - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
- d) **Circuit Overloading** - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.
- e) **Reliable Earthing** - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

General

The FMC-PS integral 115/230 VAC power supply is mounted in the FMC-RK Rack-Mount Card Cage. The design of the FMC-PS eliminates single-point failures in the event of a major fault within any module installed in the FMC-RK chassis rack. Through the use of automatic electronic current limiting within each rack-mountable module, only the faulty module shuts down, and the operation of the other modules within the rack continue unimpaired.

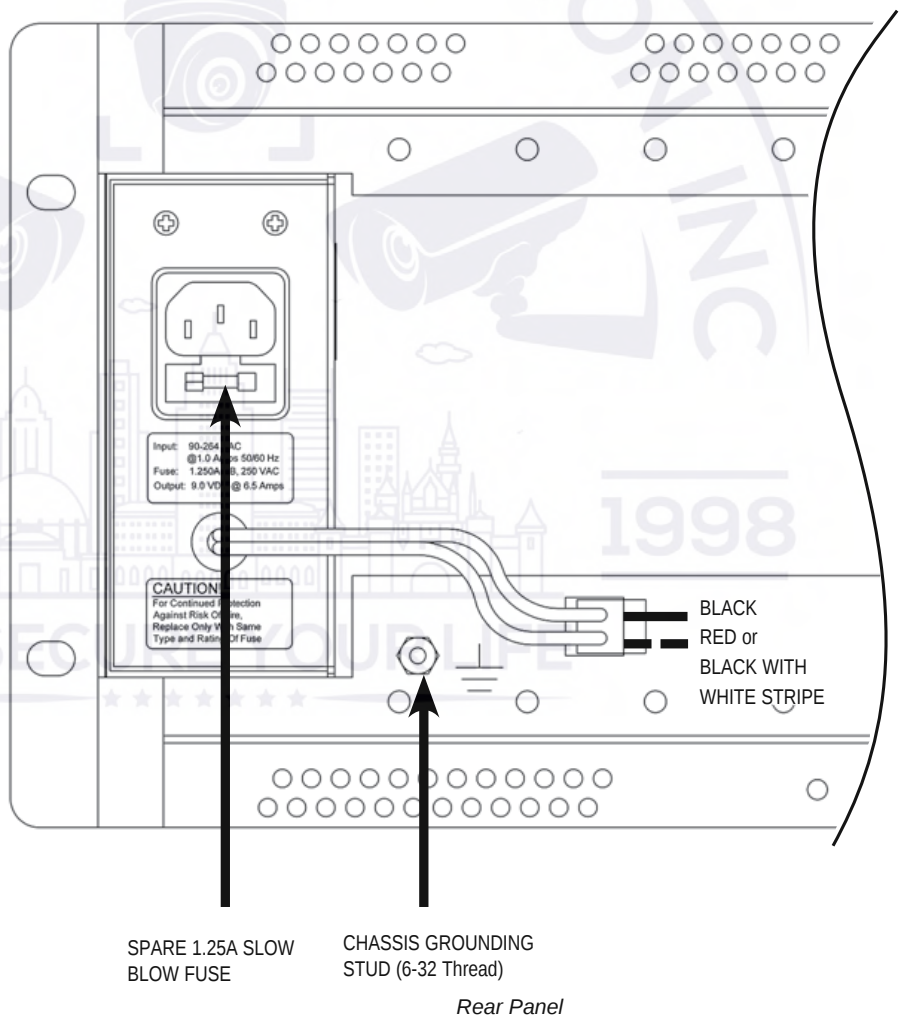
The automatic current limiting feature is also self-resetting, should the fault or overload be of a temporary or intermittent condition. The FMC-PS is installed in the FMC-RK Rack-Mount Card Cage only. No other applications are supported.



Front Panel

	POWER LED
RED	Unit powered up
OFF	Unit powered down

2 | FMC-PS Installation and Operation



ELECTRICAL

Input Voltage: 90-264 VAC @ 70 W Maximum
Output Voltage: 9 VDC +/- 5% @ 6.5 Amps @ 75°C

Detachable, IEC-connected AC Line Cord allows easy field replacement or exchange for various worldwide AC power plug configurations (use only manufacturer's supplied cord).

Installation

INSTALLATION CONSIDERATIONS

This power supply is supplied as a rack module only. Units should be installed in dry locations protected from extremes of temperature and humidity.

Unit is to be installed only in the FMC-RK Card Cage.

WARNING: Before installing, be sure that the power supply is turned off and that the rack power supply is disconnected from any power source.

1. Make sure that the power supply is oriented right side up, and slide it into the card guides in the rack until

the power supply's front panel sits flush against the front of the card cage. **CAUTION:** Take care not to press on any of the LEDs.

2. Tighten the two thumb screws on the card until the front panel of the power supply is seated against the front of the rack.
3. Connect the wires to the electrical connector on the back of the card cage. Connect supplied AC line cord to power connector in the rear of the power supply.

IMPORTANT SAFEGUARDS:

- A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
- B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

Vicon Standard Equipment Warranty

Vicon Industries Inc. (the "Company") warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original retail purchase for a period of three years, with the following exceptions:

1. VCRs, all models: Labor and video heads warranted for 120 days from date of original retail purchase. All other parts warranted for one year from date of original retail purchase.
2. LCD and CRT monitors, all models: One year from date of original retail purchase.
3. Uninterruptible Power Supplies: Two years from date of original retail purchase.
4. VDR-408 and VDR-416 Recorder Series: One year from date of original retail purchase.
5. V5616MUX: One year from date of original retail purchase.
6. Arecont Cameras: One year from date of original retail purchase.
7. FMC series fiber-optic media converters and associated accessories: Lifetime warranty.
8. For PTZ cameras, "Normal Use" excludes prolonged use of lens and pan-and-tilt motors, gear heads, and gears due to continuous use of "autopan" or "tour" modes of operation. Such continuous operation is outside the scope of this warranty.
9. Vicon Security Management Systems (SMS) All Models: All hardware is warranted for two years from date of original retail purchase.
10. Any product sold as "special" or not listed in Vicon's commercial price list: One year from date of original retail purchase.

Date of retail purchase is the date original end-user takes possession of the equipment, or, at the sole discretion of the Company, the date the equipment first becomes operational by the original end-user.

The sole remedy under this Warranty is that defective equipment be repaired or (at the Company's option) replaced, at Company repair centers, provided the equipment has been authorized for return by the Company, and the return shipment is prepaid in accordance with policy.

The Company will not be obligated to repair or replace equipment showing abuse or damage, or to parts which in the judgment of the Company are not defective, or any equipment which may have been tampered with, altered, misused, or been subject to unauthorized repair.

Software supplied either separately or in hardware is furnished on an "As Is" basis. Vicon does not warrant that such software shall be error (bug) free. Software support via telephone, if provided at no cost, may be discontinued at any time without notice at Vicon's sole discretion. Vicon reserves the right to make changes to its software in any of its products at any time and without notice.

This Warranty is in lieu of all other conditions and warranties express or implied as to the Goods, including any warranty of merchantability or fitness and the remedy specified in this Warranty is in lieu of all other remedies available to the Purchaser.

No one is authorized to assume any liability on behalf of the Company, or impose any obligations on it in connection with the sale of any Goods, other than that which is specified above. In no event will the Company be liable for indirect, special, incidental, consequential, or other damages, whether arising from interrupted equipment operation, loss of data, replacement of equipment or software, costs or repairs undertaken by the Purchaser, or other causes.

This warranty applies to all sales made by the Company or its dealers and shall be governed by the laws of New York State without regard to its conflict of laws principles. This Warranty shall be enforceable against the Company only in the courts located in the State of New York.

The form of this Warranty is effective January 1, 2011.

THE TERMS OF THIS WARRANTY APPLY ONLY TO SALES MADE WHILE THIS WARRANTY IS IN EFFECT. THIS WARRANTY SHALL BE OF NO EFFECT IF AT THE TIME OF SALE A DIFFERENT WARRANTY IS POSTED ON THE COMPANY'S WEBSITE, WWW.VICON-SECURITY.COM. IN THAT EVENT, THE TERMS OF THE POSTED WARRANTY SHALL APPLY EXCLUSIVELY.

