

Universal Power Supply Module



Installation and Operation Manual



Product Inspection

Inspect the equipment for shipping damage. Should any damage be discovered, immediately file a claim with the carrier.

Important Safety Instructions

To insure proper installation and operation, take a moment to read this guide before proceeding with the installation. If you have any questions or comments about the **MPC-PSF12/16** power supply, please contact your dealer or have him contact the **PICO MACOM** Service Center at these phone numbers: 800-421-6511, 818-493-4300.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE

TO RAIN OR MOISTURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION

CORD RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED

TO PREVENT BLADE EXPOSURE.

ATTENCION: POUR PREVENIR LES CHOCS ELECTRIQUES, NE PAS UTILISER CETTE FICHE POLARISEE AVEC

<u>UN PROLONGATEUR, UNE PRISE DE COURANT OU</u> UNE AUTRE SORTIE DE COURANT, SAUF SI

LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

1. **Read Instructions:** All safety and operating instructions should be read before the appliance is operated.

- **2. Retain Instructions:** The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings: All warnings on the appliance should be adhered to.
- 4. Follow Instructions: All operating and user instructions should be followed
- Cleaning: Unplug this appliance from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid cleaners or aerosol cleansers.
- **6. Do Not Use Attachments:** Use of attachments not recommended by the manufacturer may cause hazards.
- **7. Water and Moisture:** Do not use this product near water—for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool—and the like.

- **8. Accessories:** Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance.
- **9. Ventilation:** This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. Any slots or opening in the cabinet are provided for ventilation. To ensure reliable operation of the video product and to protect it from overheating, these openings must not be blocked or covered. Openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface.
- **10. Grounding or Polarization:** This video product is equipped with either a three prong plug for 110 VAC use or a two prong flat blade 220 VAC type plug. Each type is to be inserted into only the type of receptacle for which they specifically designed. **Do not** cut off the round grounding pin in order to be able to fit into a two prong receptacle as this could cause injury and will void the warranty.

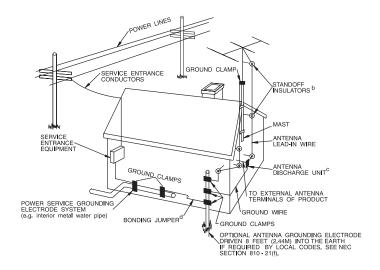






- 11. Power Sources: This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- 12. Power-cord Protection: Power-supply cords should be routed so they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
- 13. Lightning: For added protection for this product during a lightning storm, or when it is left unattended or unused for long periods of time, the unit should be disconnected from power source.
- 14. Power Lines: An outside antenna system should not be located in the vicinity of overhead power lines, other electric light or power circuits, where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them may be fatal.
- 15. Overloading: Do not overload wall outlets and extension cords as this can result in risk of fire or electric shock.
- 16. Object and Liquid Entry: Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- 17. Servicing: Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 18. Damage Requiring Service: Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions
 - a. When the power-supply cord or plug is damaged.
 - b. If liquid has been spilled, or objects have fallen into the product.
 - **c.** If the product has been exposed to rain or water.
 - d. If the product does not operate normally by following the operating instruction. Adjust only those controls that are covered by the operating instructions. An improper adjustment may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
 - e. If the product has been dropped or the cabinet has been damaged.
 - f. When the product exhibits a distinct change in performance this indicates a need for service.
- 19. Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock or
- 20. Safety Check: Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating conditions.
- 21. Outdoor Antenna Grounding: Before attempting to install this product, be sure the antenna or cable system is grounded so as to

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS CONTAINED IN ARTICLE 810 - "RADIO AND TELEVISION EQUIPMENT



provide some protection against voltage surges and built-up static charges.

- a. Use No.10 AWG (5.3mm) copper, No.8 AWG (8.4mm) aluminum, No.7 AWG (10mm) copper-clad steel or bronze wire or larger, as ground wire.
- b. Secure antenna lead-in and ground wires to house with standoff insulators spaced from 4 feet (1.22m) to 6 feet (1.83m) apart.
- c. Mount antenna discharge unit as close as possible to where lead-in enters house.
- d. A driven rod may be used as the grounding electrode where other types of electrode systems do not exist. Refer to the National Electrical Code, ANSI/NFPA 70-1984 for information.
- e. Use jumper wire not smaller than No.6 AWG (13.3mm) copper or equivalent, when a separate antenna grounding electrode is used.

NOTE TO THE CATV SYSTEM INSTALLER

THIS REMINDER IS PROVIDED TO CALL THE CATV SYSTEM INSTALLER'S ATTENTION TO ARTICLE 820-22 OF THE NEC THAT PROVIDES GUIDELINES FOR PROPER GROUNDING AND, IN PARTICULAR, SPECIFIES THAT THE CABLE GROUND SHALL BE CONNECTED TO THE GROUNDING SYSTEM OF THE BUILDING, AS CLOSE TO THE POINT OF CABLE ENTRY AS PRACTICAL.



Ph:800-421-6511

Descriptions



MPC-PSF12/16

Universal Power Supply Module



- Current overload protection prevents damage to system and prolongs power supply life
- ➤ High capacity fully regulated power supply provides the most efficient performance, to ensure reliability and system performance over a wide range of environmental conditions
- ➤ High efficiency power supply (over 70%) equipped with cooling fan minimizes power consumption and heat dissipation
- ➤ Internal fusing circuitry provides current overload protection and precise voltage regulation preventing component damage

MPC-PSF12/16

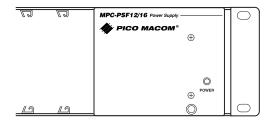
Universal Power Supply Module

The MPC-PSF12/16 is Pico Macom's heavy-duty, fan-cooled power supply designed to power either the MPC12 or MPC16 mini-headend systems. The integrated power supply (4-module wide) is a 70-Watt capacity module specifically designed for mini-modulator applications requiring a highly reliable DC input supply. Sophisticated packaging and filtering techniques are used to ensure compliance with UL/CSA specification thus minimizing the need for overall system filtering. The MPC-PSF12/16 power supply employs high efficiency current load technology a nd a whisper quiet cooling fan to reduce heat transfer within the chassis providing cooler overall operation and ensuring improved long tern reliability.

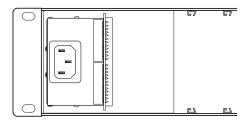




Universal Power Supply Module



FRONT VIEW



REAR VIEW

Power Supply

Efficiency:

Input Voltage Range: 100-240 VAC Input Frequency: 47-63Hz V1 5V/4A **Output Specifications:**

12V/4A 30V/.2A 70% typical 100 Khz

Operating Frequency: <30A @ 115VAC @ 25°C **Input Inrush Current:** Line Protection: PCB AC line fuse DC Output Ripple:

Within 1% (Vpp) at maximum load @ 25°C @ PS output

shorted to ground

terminal ± 1%

Line/Load Regulation: Minimum Load: 10% of full rated load **Operating Temperature:** 0 to 60°C Storage Temperature: -40 to 85°C **Overcurrent Protection:** No damage to outputs when **Connectors**

Input Power Connector: IEC 320 Power Inlet **Output Connector:** (6X) JST B12B-XH-A, or Eq.

12CH CBL PIN ٧ 16CH CBL 5 Black 1,5,9 Blue 2,6,10 12 Orange Orange 3,7,11 **RET** Red Red 4,8,12

Ordering Information

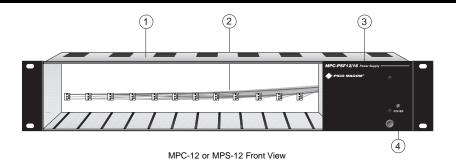
MPC-PSF12/16





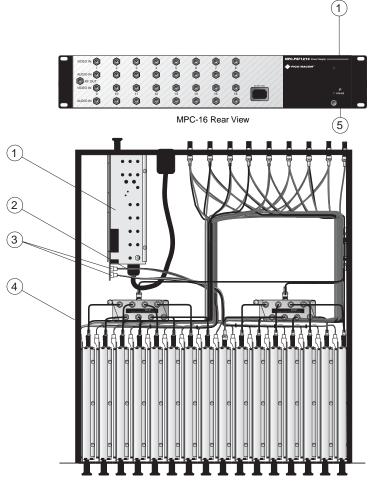
MPC-12 or MPS-12

- 1. MPC-12 or MPS-12 chassis
- 2. DC power supply harness
- 3. MPC-PSF12/16 power supply
- 4. Power indicator



MPC-16

- 1. MPC-PSF12/16 power supply
- 2. AC power cord
- 3. DC power supply harness
- 4. MPC-16 chassis
- 5. Power indicator



MPC-16 Top View



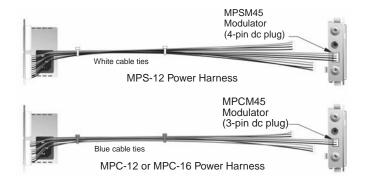


Adherence to these instructions will prevent problems during initial installation of the MPC-PSF12/16.

The MPC-PSF12/16 is a versatile modular power supply that is compatible with the MPS-12, MPC-12, and MPC-16 mini-headend systems. The difference between the three models is the wiring harness used.

| System | Wiring Harness Used | Color Code |
|--------|---------------------|------------|
| MPS-12 | 4 conductor harness | White |
| MPC-12 | 3 conductor harness | Blue |
| MPC-16 | 3 conductor harness | Blue |

The hook-up configuration below illustrates the harness installation for each model for a single module.



MPS-12

- 1. If user prefers to retain currently installed DC power supply harness, disconnect the 12-pin connectors (4 pcs.) and the 110 volt AC power cord from the back of the MPC-PSF12/16.
- Remove the power supply module by sliding module out from front of MPS-12 chassis.
- 3. If user prefers to install new DC power supply harness with replacement power supply, disconnect the harness from the minimodules and the 110 volt AC power cord from the back of the MPC-PSF12/16. Remove the power supply module with DC harnesses by sliding module out from front of MPS-12 chassis.
- 4. Insert the new MPC-PSF12/16 half-way into the chassis. **CAUTION:** Be sure that the PCB is properly aligned into the chassis PCB rail. Connect the green ground wire to the top of the module with one of the cover screws.

- 5. Connect the appropriate harness' 12-pin dc connector (4 pieces) to the 12-pin jacks located on the power supply.
- 6. Connect the 4-pin connector to the power jack located on the back of the modulator.
- 7. Connect the power cord. Verify that the power lights on the front of the modulator are lit.

MPC-12

- 1. If user prefers to retain currently installed DC power supply harness, disconnect the 12-pin connectors (4 pcs.) and the 110 volt AC power cord from the back of the MPC-PSF12/16.
- 2. Remove the power supply module by sliding module out from front of MPC-12 chassis.
- 3. If user prefers to install new DC power supply harness with replacement power supply, disconnect the harness from the minimodules and the 110 volt AC power cord from the back of the MPC-PSF12/16.
- 4. Remove the power supply module with DC harnesses by sliding module out from front of MPC-12 chassis.
- 5. Insert new MPC-PSF12/16 module with harness into chassis slot previously occupied by removed unit. **CAUTION:** Be sure that the PCB is inserted into the PCB slide guides. Connect power cord to MPC-PSF12/16.
- 6. Connect the appropriate harness' 12-pin dc connector (4 pieces) to the 12-pin jacks located on the power supply.
- 7. Connect the 3-pin connector to the power jack located on the back of the modulator,
- 8. Connect the power cord. Verify that the power lights on the front of the modulator are lit.

MPC-16

- 1. Disconnect the 12-pin connectors (6 pcs.) and the 110 volt AC power cord from the back of the MPC-PSF12/16.
- Remove the power supply module by sliding module out from back of MPC-16 chassis.
- 3. Insert new MPC-PSF12/16 module into chassis slot previously occupied by removed unit. **CAUTION:** Be sure that the PCB is inserted into the PCB slide guides.
- 4. Connect the appropriate harness' 12-pin dc connector (4 pieces) to the 12-pin jacks located on the power supply.
- 5. Connect the 3-pin connector to the power jack located on the back of the modulator,
- 6. Connect the power cord. Verify that the power lights on the front of the modulator are lit.





Limited Warranty

Pico Macom warrants to the original purchaser that all of its new products are of sound design, quality materials and workmanship at the time of manufacture and will be free from related defects for one year from the original purchase date. Pico Macom will repair or, at its discretion, replace without cost to the original purchaser, the product which, upon inspection by Pico Macom, appears to be defective or not conforming to factory specifications. Pico Macom will cover the cost of parts, labor, and return freight from factory.

Five-Year Limited Warranty

Most products designated as "Headend Electronics" are further covered by an extended 4-year period beyond the expiration of the original 1-year warranty, for a full 5-year period. Qualified equipment requiring factory repair during the extended 4-year period is covered under our re-certification program. Re-certification fees under this program shall not to exceed 20% of the product's List Price and whenever possible, Pico Macom will attempt to upgrade performance to the latest improved specification.

Warranty Limitations

This warranty excludes coverage of damage or inoperability resulting from (1) use or installation other than in strict accordance with Pico Macom's written instructions, (2) disassembly or repair by someone other than Pico Macom or a Pico Macom authorized repair center, (3) misuse, misapplication or abuse, (4) alteration, (5) lack of reasonable care or (6) wind, ice, snow, rain, lightning, power surges, or any other weather conditions or acts of God. Pico Macom's warranty with respect to third-party proprietary sub-assembly modules and/or private-label products are limited to the duration and terms of third-party vendors' warranty. Pico Macom shall in no event and under no circumstances be liable or responsible for any consequential, indirect, incidental, punitive, direct or special damages based upon breach of warranty, breach of contract, negligence, strict tort liability or otherwise or any other legal theory, arising directly or indirectly from the sale, use, installation or failure of any product acquired by buyer from Pico Macom. This limited warranty extends to the original purchaser. Pico Macom reserves the right to modify or discontinue this warranty at Pico Macom's sole discretion without notification. No other warrantees are expressed or implied.

Uptime Loaner Program

Our Uptime loaner program is designed to provide domestic users of our headend products and commercial systems the best possible support and service. This program is established to minimize downtime resulting from equipment failure in critical service situations. We offer this program free-of-charge (excluding freight) to qualified purchasers within the warranty period. The program provides a free equipment loan of like qualified equipment enabling seamless operation for the time required to repair and return the unit.

The process is simple. Call our Customer Service desk requesting a return-merchandise-authorization (RMA) number for the failed equipment and ask for a loaner unit. We will issue an invoice for the List Price of the loaner unit plus shipping costs. When you receive the loaner unit, pack the failed unit in the loaner unit's box and ship it freight prepaid to Pico Macom for repair. When you receive the repaired unit, a new RMA number will be provided in the box. Carefully pack the loaner unit and affix the new RMA number on the box and ship it back to us for full credit excluding shipping costs.

To qualify for the program, you must have current open-terms with us and in good standing. We must receive your failed unit within one week after the loaner unit is shipped to you, and must likewise receive the loaner unit within one week after the repaired unit is shipped back to you. Daily rental fees not to exceed 10% of the equipment's List Price will apply beyond one week after the loaner or repaired unit are shipped to you. Other limitations may apply, so please call us for additional information on qualifying equipment and procedures. Pico Macom reserves the right to modify or discontinue the Uptime Loaner Program at any time, and at its sole discretion.

Damage or Shortage Claims

Our shipping staff carefully packs and ships your orders in compliance with common carriers' requirements. Please make note of any obvious damage or shortage on the freight bill or carrier's receipt next to your signature. The carrier's agent must too sign acknowledging the loss. Failure to do so may result in the carrier's refusal to honor the claim. Please open your order immediately upon receipt to check for concealed damage and compare the packing list to the items shipped. If damaged, keep the original shipping cartons for possible inspection by the carrier. You must report claims for loss or damage within 3 days of delivery, while claims for erroneous charges or price corrections must be presented within 30 days of invoice date.

Returning Shipped Items

To return any shipped items, including those shipped for warranty repairs or credit, call our Customer Service desk to request a Return Merchandise Authorization (RMA) number. Please reference the original invoice number and purchase date, and product serial number (if any). Be certain to mark the RMA number on the package boldly and legibly. Unless we specify a different carrier, please ship your returned items to us via UPS freight prepaid and fully insured. If returned for credit, we will promptly process your request upon receipt of your return order.

Our Return Policy: Your Satisfaction Guaranteed

Our goal is your complete satisfaction. If for any reason, our products were not quite what you anticipated, simply call your customer service rep and we will be happy to assist you in replacing or returning the order. You may return current, non-discontinued items for full credit for up to 30 days from invoice date. Our requirements are simple: Excepting defective items, the products must be returned in their original packaging and in re-salable condition. Restocking fees may otherwise apply beyond this period or if products are not returned in their original condition. Please contact your customer service rep for more information.





PICO MACOM®

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com