

Use and Installation Manual

Digital Power Conditioner

Models

DPC-1000NA

DPC-1800NA

DPC-2400NA



RoHS Compliant



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INTRODUCTION

Thank you for your purchase of this isolation transformer based power conditioning solution. This power conditioner is designed to protect sensitive electronic systems from the destruction, degradation, and disruption caused by electrical power disturbances.

The model you have purchased is designed for use with a wide variety of digital audio and video gear including digital audio workstations, video editing systems, digital signal processors and other microprocessor based systems. This power conditioner is designed to be rack mounted.

INSPECTION

Remove the power conditioner from the shipping container and closely inspect it for shipping damage. Do not install or operate the product if it appears to be damaged in any way. If damaged, notify the carrier and the company that sold it to you immediately.

ENVIRONMENTAL ISSUES

This power conditioner has environmental requirements similar to other electronic equipment. It has been designed for indoor use only, in areas where it will not be exposed to excessive dust or moisture. Make certain that there is adequate airflow around the unit. Do not place objects on top of or near the unit, which could obstruct the air vents.

SIZING INFORMATION

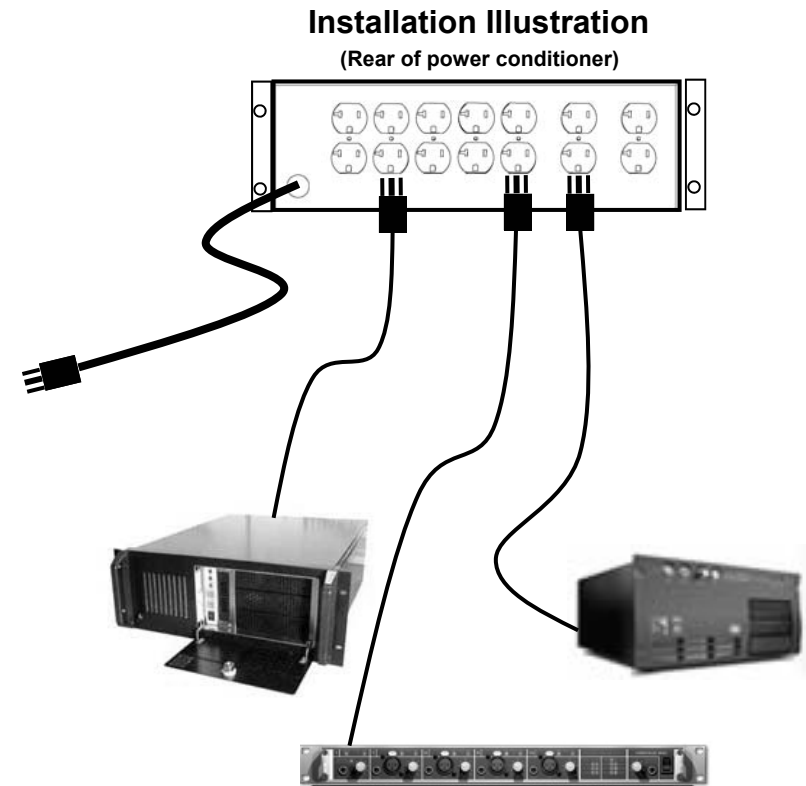
The data plate on the rear panel lists the power conditioner operating voltage, frequency, and current ratings. Observe that the input current rating is not exceeded when connecting single and multiple loads to the power conditioner receptacles.

INSTALLATION

1. The power conditioner is transformer based and some models have considerable weight. Install low in the equipment rack to prevent the rack from becoming top heavy. Attach the conditioner to both the front and the rear rack rails.
2. Do not use extension cords or surge or filtration devices with the power conditioner.
3. Place all audio/video gear power switches in the off position. Plug the power conditioner into a branch electrical circuit with the proper amperage rating and equipped with the proper grounded NEMA receptacle. Consult the electrical data in the appendix of this manual for the proper branch circuit ratings and receptacle styles for each model of power conditioner.

CAUTION - THIS POWER CONDITIONER IS EQUIPPED WITH A GROUNDED INPUT POWER CORD. UNDER NO CIRCUMSTANCES SHOULD YOU REMOVE THE GROUNDING PIN FROM THE POWER CORD. DO NOT USE A PLUG ADAPTER (COMMONLY CALLED A "CHEATER" PLUG) TO DISABLE THE SAFETY GROUND CONNECTION. DO NOT REMOVE ANY OF THE GROUNDING PINS FROM THE POWER CORDS OF THE CONNECTED GEAR. THE SAFETY GROUND CONNECTION PROVIDES PROTECTION AGAINST SHORT CIRCUITS AND ELECTRICAL FAULTS INSIDE THE CONNECTED GEAR. DISABLING OR REMOVING THE SAFETY GROUND CONNECTION CREATES A FIRE HAZARD AND A RISK OF ELECTROCUTION.

4. Plug the audio/video gear into the power conditioner receptacles.
5. Turn the power conditioner circuit breaker ON.
6. Once the power conditioner has been properly installed and energized, the power switches for the audio/video gear may be turned ON.



GENERAL INFORMATION

The Digital Power Conditioner contains three power conditioning elements: a low impedance isolation transformer, a high energy surge diverter, and a power line noise filter. Working together, these three elements provide a very high level of power conditioning for digital audio and video gear.

High frequency noise as well as high energy surges up to 6000 volts in amplitude will be reduced to less than 10 volts normal mode (phase to neutral) and less than .5 volts (one half of one volt) between neutral and ground (common mode).

This performance specification is your guarantee that your expensive audio and video equipment will always receive the cleanest and highest quality power available from any power protection solution.

OPTIONAL FEATURES

The Digital Power Conditioner may be equipped with one or both of two optional features. These include:

1. True RMS meters for the measurement of input voltage and total output (or load current). With these features installed, it's no longer necessary to interpret rows of LED indicators to determine input voltage. The true RMS output current meter allows you to easily tell when it's possible to add additional load to the power conditioner.
2. An over voltage and under voltage protection circuit is also optionally available. When equipped with this feature, the power conditioner will automatically turn off when branch circuit voltage falls outside of safe operating limits. The power conditioner will auto-restart as soon as voltage returns to nominal operating levels.

TECHNICAL AND SERVICE ASSISTANCE

Technical and service assistance is available in North America between the hours of 8:00 a.m. and 5:00 p.m. Central Time by calling (330) 677-4424. Technical and/or service problems and/or questions may also be placed with ETA Systems at our website at www.etasys.com.

CUSTOMER SERVICE

For service, obtain the model number, part number, and serial number from the rear panel data plate. Then contact ETA Systems via phone or web to obtain a Return Material Authorization (RMA) number. This number must be marked on the shipping container and packing slip of the unit being returned. The original shipping container should be used if available. Additional charges will apply for repair of damages caused by improper packing of the returned unit.

Unauthorized return shipments will be refused. Units for repair must be shipped prepaid to ETA Systems.

WARRANTY

ETA Systems warrants its power conditioners (known hereafter as the "product") to be free from defects in materials and workmanship for a period of five years from the date of shipment. The product will be repaired or (at ETA's option) replaced at no charge during this warranty period. Product must be returned prepaid.

ETA Systems makes no warranties, expressed or implied, of merchantability, fitness for a particular purpose, performance, condition, capacity or otherwise. The manufacturer is not liable for incidental or consequential damages, monetary loss, loss of sales or loss of business resulting from the failure or malfunction of the product.

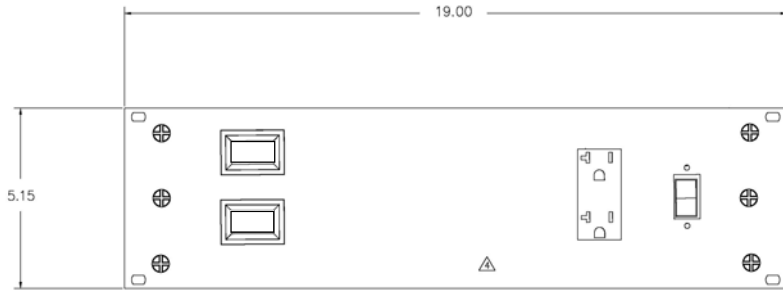
Warranty is void on any product that is misused, misapplied, abused, altered, repaired by unauthorized personnel, or where evidence of tampering exists. The foregoing constitutes the sole and exclusive remedy of the purchaser and is in lieu of all other warranties. No greater degree of liability is imposed on the manufacturer.

SPECIFICATIONS

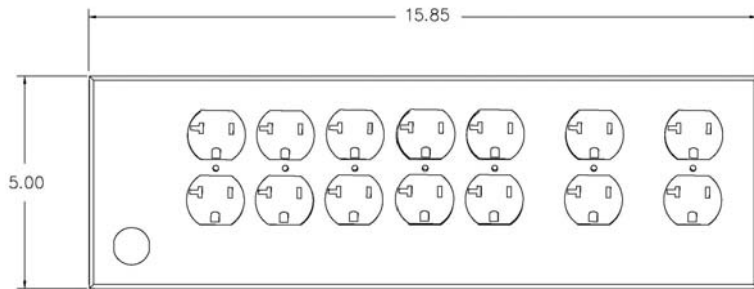
MODEL #	DPC-1000NA	DPC-1800NA	DPC-2400NA
Input voltage	120 vac, 60 Hz	120 vac, 60 Hz	120 vac, 60 Hz
Output voltage	120 vac, 60 Hz	120 vac, 60 Hz	120 vac, 60 Hz
Max Load Amps	8.3 amps	15 amps	20 amps
Max Load VA	1000 VA	1800 VA	2400 VA
Required branch circuit amperage rating	15 amps	15 amps	20 amps
Input receptacle required	NEMA 5-15R	NEMA 5-15R	NEMA 5-20R
Output receptacles	14 rear, 2 front NEMA 5-15R	14 rear, 2 front NEMA 5-15R	14 rear, 2 front NEMA 5-20R
Size	Standard 19" wide—3U high	Standard 19" wide—3U high	Standard 19" wide—3U high
Shipping Weight	47 lbs	65 lbs	70 lbs

Mechanical

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Front View



Rear View



Side View

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