



Cart Power

Power Distribution System

Operation Manual Version 1.0
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Professional Sound Corporation
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Thank you for purchasing the Professional Sound Corporation Cart Power distribution system. PSC is confident that the Cart Power has set new standards for clean, quiet powering of your portable audio equipment. Please feel free to contact us at the address below if you have any comments, suggestions, or questions about your new PSC Cart Power. Additionally, we are always open to suggestions for new products that you would like to see developed.

PSC extends a limited one-year parts and labor warranty to all Cart Power system owners.

PLEASE BE SURE THAT YOU HAVE READ AND UNDERSTOOD THIS ENTIRE OPERATIONAL MANUAL BEFORE OPERATING THE PSC CART POWER!

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DESCRIPTION:

The PSC Cart Power system is designed to supply 12Vdc from any AC outlet and distribute it in a low noise manner. Each of the six outputs contain dedicated EMI/RFI filters to reduce the chance of inter-modulation noise. In addition the cart power may be used to distribute power from your pelican style battery boxes.

USE:

The PSC Cart Power is designed for use in powering your entire digital audio recording package. Each of the Cart Power's six, 4 pin female XLR output connectors provide 12Vdc. You can either connect it to any 12V-battery pack and use it as a power distribution network or plug it into AC and use it as a power supply. Both functions can also be used at the same time to create a uninterruptible power supply. You will primarily be operating off of AC, but if the AC goes out, the Cart Power will automatically power your equipment from your battery. Please note that the Cart Power does not provide a charge function for your batteries.

OUTPUT OVERLOAD PROTECTION:

The PSC Cart Power is equipped with a Raychem Polyswitch automatic re-settable fuse to protect the outputs of the Cart Power. These solid state devices act like ordinary fuses or circuit breakers. They interrupt the flow of dangerously high electrical current in the case of a fault condition in the equipment being powered. The Polyswitch will only reset after the fault has been removed and the Polyswitch allowed time to cool down (approximately 30 seconds). The Polyswitch requires no manual resetting or replacement eliminating the need to carry spare fuses in the field. Please note that the Polyswitch should not trip during normal use of the Cart Power! If you experience tripping of this device on any continuing basis, something is wrong and a qualified technician should check your equipment and cables immediately. When the Polyswitch has tripped, the front panel mounted green LED will go out.

CABLES:

PSC recommends that you use only two conductor, unshielded 16AWG power cable for power distribution. Shielded cable is not recommended as the shield may cause short circuits between adjacent pins on the connectors.

It is highly recommended that you have your cables built by qualified personnel and tested prior to use with your Cart Power. All power cables should be clearly labeled on both ends as to what they are to be connected to. For example, label one end "Cart Power" and the other end "Fostex PD6". This will help prevent inadvertently connecting the cables to the wrong piece of equipment. We cannot stress enough the importance of good quality power cables and careful connections. Poorly constructed and/or labeled cables can result in equipment damage! Please also make sure that the devices you wish to operate from the Cart Power are designed to operate on 12Vdc. The Cart Power does not supply other voltages.

WARNING!

THE PSC CART POWER OUTPUTS 12VDC AT SUBSTANTIAL CURRENT! ALL AUXILIARY EQUIPMENT SHOULD BE REVERSE POLARITY PROTECTED AND PROPERLY FUSED TO MANUFACTURES RECOMMENDATIONS AT ALL TIMES! THE PSC CART POWER IS CAPABLE OF SUPPLYING MORE THAN 8 AMPS OF OUTPUT CURRENT INTO A SHORT CIRCUIT BEFORE THE INTERNAL POLYSWITCH TRIPS. THIS IS MORE THAN ENOUGH POWER TO SEVERELY DAMAGE UNPROTECTED EQUIPMENT!

DO NOT DISASSEMBLE THE PSC CART POWER! IT CONTAINS NO USER SERVICEABLE PARTS OR ADJUSTMENTS. HIGH VOLTAGE AND CURRENT MAY BE PRESENT. REFER ALL SERVICE TO QUALIFIED PERSONNEL ONLY.

TERMS OF USE:

THE IMPROPER CONNECTION OF THIS POWER SUPPLY TO AUXILIARY EQUIPMENT MAY RESULT IN DAMAGE TO SAID EQUIPMENT. THE OPERATOR OF THIS POWER SUPPLY ASSUMES ALL RESPONSIBILITY AND LIABILITY! PROFESSIONAL SOUND CORPORATION AND/OR ITS EMPLOYEES AND OFFICERS ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL AND PROPERTY DAMAGE INCURRED DUE TO ACCIDENT, CARELESS HANDLING, ABUSE OR MISSUSE, IMPROPER CONNECTION, AND/OR INSTALLATION, IMPROPER ELECTRICAL CONTACT OR GROUNDING. OWNERSHIP AND/OR USE OF THE PSC CART POWER CONSTITUTES AGREEMENT WITH THESE TERMS.

SPECIFICATIONS:

Size: 9" x 4.5" x 1.5" (23cm x 11.5cm x 3.8cm)

Weight: 4Lbs (1.8Kg)

AC Input Power: 100 to 240Vac, 44 to 400Hz

DC Input Power: SLA batteries, 12Vdc
Pins 1&2 Ground
Pins 3&4 +12Vdc

Output Power: Pin 1 = Ground
Pin 4 = +12Vdc @ at up to 8 amps

Warranty: Limited, One Year, Parts and Labor.