



# ***Cart Power II***

## **Power Distribution System**

Operation Manual Version 1.0  
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Thank you for purchasing the Professional Sound Corporation Cart Power II distribution system. PSC is confident that the Cart Power II 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 II. 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 II 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 II system is designed to supply 12Vdc from any AC outlet and distribute this power in a low noise manner. In addition the Cart Power II may be used to distribute power from nearly any external battery box such as the PSC Pelican LiFE battery or a sealed lead acid battery. Each of the seven outputs are equipped with dedicated EMI/RFI filters to reduce the chance of inter-modulation noise and automatically re-setting Polyfuses to protect your expensive equipment. The AC power supply is conservatively rated at 10 amps of output current.

## USE:

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

## FRONT PANEL VIEW:



7 x XLR 4 Pin Power Outputs    SpeakOn Battery Input    LED Power Indicator

## REAR PANEL VIEW:



AC Input

Specifications

Warnings

## OUTPUT OVERLOAD PROTECTION:

Each individual output on the PSC Cart Power II is equipped with a Raychem Polyfuse automatic re-settable fuse to protect that output of the Cart Power II. 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 II ! 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.**

In addition to the individual output polyfuses, there is also a master polyfuse on the external battery input SpeakOn connector. This polyfuse provides overall protection when operating from an external battery. When this master polyfuse has been tripped, the front panel mounted green LED will go out if you are operating from an external battery only.

**ATTENTION:**

The PSC cart Power II contains a 300 watt AC power supply that is rated for 10 amps of output current which is enough to power most small sound carts. The AC supply requires ventilation for proper operation and cooling. You must allow adequate airflow around the PSC Cart Power II to ensure proper operation and cooling. Please allow a minimum of 2" (5cm) open space around each side of the Cart Power II and a minimum of 3" (7.6cm) open space above the top of the Cart Power II. Failure to provide proper air flow and cooling can result in the Cart Power II shutting off due to thermal overload. If this happens, unplug the Cart Power II, allow it to cool off for 30 minutes and then plug it back in. Once the unit cools off and is power cycled, the automatic high temperature shut down circuit will reset itself. If you ever experience any thermal cut off, you should check to see that you are providing adequate air flow for proper operation and cooling. Failure to provide adequate ventilation for cooling purposes can result in damage to the PSC cart Power II and is not covered under the PSC warranty.

**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 II. 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 II" and the other end "Solice Mixer". 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 II are designed to operate on 12Vdc. The Cart Power II does not supply other voltages.

**WARNING!**

**THE PSC CART POWER II OUTPUTS 12VDC AT SUBSTANTIAL CURRENT! ALL AUXILIARY EQUIPMENT SHOULD BE REVERSE POLARITY PROTECTED AND PROPERLY FUSED TO MANUFACTURER'S RECOMMENDATIONS AT ALL TIMES! THE PSC CART POWER II IS CAPABLE OF SUPPLYING MORE THAN 10 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 II ! 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:**

<b>Size:</b>	<b>8.5" x 5.5" x 1.75" (21.6cm x 14cm x 4.4cm)</b>
<b>Weight:</b>	<b>2.2Lbs (1Kg)</b>
<b>AC Input Power:</b>	<b>90 to 264Vac, 47 to 63Hz</b>
<b>DC Output Voltage:</b>	<b>13.8Vdc (when operating ion AC)</b>
<b>DC Input Power:</b>	<b>LiFE, Li-ion, SLA batteries, 12Vdc Nominal</b>
<b>DC Input Connector:</b>	<b>SpeakOn, 2 pole</b>
<b>Individual Output Current:</b>	<b>3 Amps</b>
<b>Global Output Current:</b>	<b>10 Amps</b>
<b>Output Connector:</b>	<b>XLR, Female, 4 Pin</b>
<b>Output Pin-outs:</b>	<b>Pin 1 Negative (-) Pin 4 Positive (+)</b>
<b>Warranty:</b>	<b>Limited, One Year, Parts and Labor</b>

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## **DECLARATION OF CONFORMITY**

**EMC:** This product is in compliance with the Electromagnetic Compatibility Directive, 89/336/EEC as defined in EN 50081-1, EN55022 and EN 50082-1. IEC801-2, IEC801-3 and IEC801-4.

**LVD:** This product is in compliance with the requirements of the Low Voltage Directive, 73/23/EEC. 93/68/EEC as defined in EN60065, 1993 and/or EN60950/A1/A2/A3: 1995

**TRADE NAME:** PSC

**MODEL:** Cart Power II

**RESPONSIBLE PARTY:** Professional Sound Corp.  
28085 Smyth Drive  
Valencia, CA 91355 USA

**CONTACT PERSON:** Ronald Meyer  
(661) 295-9395

**TYPE OF PRODUCT:** Power Supply, DC, Low Voltage

**MANUFACTURER:** Professional Sound Corp.  
28083 Smyth drive  
Valencia, CA 91355 USA

We hereby declare that the equipment bearing the trade name and model number listed above has been tested in accordance with the requirements contained in the above listed directives. All necessary steps have been taken and are in force to assure that production units manufactured will conform to Directive guidelines.

July 2016

Professional Sound Corporation.



## **PSC Cart Power II Limited Warranty**

**Professional Sound Corporation warrants the Cart Power II to be free of defective material and workmanship for a period of one year from the original date of purchase and agrees to repair or replace such defective parts or the whole product at its option, provided that the equipment is returned to Professional Sound Corporation. Shipping and insurance costs to and from Professional Sound Corporation must be prepaid by the owner. This warranty does not cover damage due to accident, careless handling, abuse or misuse, improper connection and/or installation, improper electrical contact or grounding. This warranty will be null and void in the event of removal, alteration or tampering with the serial number, or by breakage of the product case seal, or by service or repair work not performed by Professional Sound Corporation, or by use without adequate airflow for proper cooling. Proof of purchase date (copy of invoice or Warranty Certificate) must be furnished before warranty service will be performed. This warranty is in lieu of any other warranty, expressed or implied, including warranties without limitation, products being merchantable at the time of purchase or suitable for a particular purpose. This warranty does not extend to, or include consequential damage.**

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**All technologies employed in the design and manufacturing of the Cart Power II remain the proprietary property of Professional Sound Corp. All Rights Reserved**

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