



The Hot Box v2 is the latest revision of Remote Audio's popular DC power distribution box, and the newest member of the MEON series of power management devices. Like its "Hot Box" predecessor, the Hot Box v2 features 6A self-resetting breakers on each of its XLR4F output connectors and a master on/off switch. Maximum current handling capability is 24A for the entire box. Hot Box v2 adds reverse-polarity protection and a much smaller physical footprint with all connectors entering and exiting on the same side of the unit. It is simple to mount in a cart.

Using the Hot Box v2

The Hot Box v2 has a 4-pin XLR input, wired in the standard configuration of PIN 4 +, PIN 1 -. Input voltage should fall within a range of 6 - 20V to ensure correct operation. The Hot Box v2 is protected from reverse-polarity at the input. The illuminated power switch will stay off, and no voltage will be passed to the output connectors. There are five DC power outlets on the Hot Box v2, also wired in the standard 4-pin XLR configuration. These outlets have auto-resetting 6A breakers to protect against overload. The Hot Box v2 can be mounted inside the cart or bag with Velcro® strips or any other suitable type of fastening device.

Using the Hot Box v2 with the Shunt Box and RM

The Shunt Box is the perfect companion to the Hot Box v2. It offers enhanced power management options, including its own redundant overload protection, reverse polarity protection with flashing indicator, and RM Remote Meter interfacing for voltage & current monitoring and remote power cycling. The Shunt Box can be placed in-line before the input to the Hot Box v2 to monitor the total voltage and current consumption of all devices connected and to remotely turn on/off the system. It could also be placed in-line with a single device to remotely monitor and turn on/off that device. With the Hot Box v2 hidden deep inside the cart, the Shunt Box and RM Remote Meter become the brains of your power management system.

Information concerning DC Power Cables

There is always some voltage drop in power cables, but the goal is to keep this drop as insignificant as possible. When using a battery system, managing this voltage drop is particularly important and can actually add hours of use before recharging is needed. For example, if a piece of equipment automatically shuts down when its supply voltage falls below 11V, and there is a 1V drop in the cable, then the equipment will shut down when the battery supply goes below 12V. Since much of the capacity of most 12V battery systems is between 12V and 11V, it is easy to see how important it is to minimize the voltage drop within a cable.

The amount of voltage drop in a cable depends on three factors: 1) the amount of current drawn by the device being powered, 2) the size of the conductors inside the cable, and 3) the length of the cable. Simply put, the larger the conductors and shorter the cable, the less the voltage drop will be. But the more the current draw of a piece of equipment, the more the voltage drop. Therefore, a small cable that would have an insignificant drop with equipment drawing only 250mA (for example) may be completely inadequate for equipment drawing 6A. There are equations and formulas available to help determine the amount of voltage drop given a certain length of cable, size of conductors (gauge), and amount of current being drawn. However, the best practice is to use cables that are as large and short as practical. Your Remote Audio dealer should be able to supply cables of proper length and gauge for your needs.

Repairs

Items needing repair may be sent directly to:

Remote Audio Products
220 Great Circle Road, Suite 114
Nashville, TN 37228

Prior to returning any items, contact Remote Audio for an RA# (return authorization number) at 615-256-3513, or repairs@remoteardio.com

Specifications:

<i>Connector Type:</i>	<i>XLR4M input (x1), XLR4F output (x5)</i>
<i>Voltage Requirements:</i>	<i>6 - 20 VDC</i>
<i>Current Capacity:</i>	<i>6A at each output, 24A total</i>
<i>Self-Draw:</i>	<i>60 mA @ 13.8VDC Nominal</i>
<i>Dimensions:</i>	<i>6.4" x 1.6" x 1.9"</i>
<i>Weight:</i>	<i>7.5 oz</i>

Limited Warranty

For a period of 1 year from the time of sale, defects in parts and workmanship will be either repaired or replaced at the determination of Remote Audio. Dated proof of purchase required.