



2335 208<sup>th</sup> Street • Torrance, CA 90501 • Tel: 310-328-1306 • Fax: 310-328-0869  
<http://www.rock-ola.com>

## Technical Advisory

<b>Date:</b> 07/17/06	<b>Product:</b> Uninterruptible Power Supply	<b>Document #</b> 5113
-----------------------	--	------------------------

### THE IMPORTANCE OF USING THE U.P.S. (UNINTERRUPTIBLE POWER SUPPLY)

All Rock-Ola digital downloading jukeboxes include an uninterruptible Power Supply, or U.P.S., to protect the core, monitor, and other electronic components from the effects of noisy, poor, or fluctuating power.

Following are the 3 key functions of the U.P.S.:

1. **NOISE SUPPRESSION:** All power lines contain signals of varying frequency and amplitude that can hinder the operation of the equipment or even harm the equipment. The U.P.S. contains an EMI/RFI filter that rejects normal and common mode interference signals.
2. **POWER PROTECTION:** The UPS protects the equipment from power spikes (very short voltage increases), surges (voltage increases lasting more than half-a-second), and sags (voltage decreases half-a-second or less). These harmful occurrences can be voltage increases many times over the normal power levels. The UPS ensures that these damaging fluctuations are kept out of the equipment.
3. **BROWN-OUT PROTECTION:** Power reductions under 100 volts and lasting over half a second may trigger the core to reboot, causing the loss of the song in play or current download as well as other performance issues. Furthermore, these brown-outs are generally followed by a potentially damaging surge. On location, these occurrences can be caused by refrigeration equipment, heating equipment and air conditioning. The U.P.S. protects the jukebox electronics by switching over to battery power. This isolates the core and CPE equipment from the location power line(s) until the brown-out is over and the surge is spent.

Running a system without a U.P.S. exposes all of the computer electronics to these damaging events, reducing life and causing poor performance. Furthermore, removing the UPS may void the jukebox warranty.