

## Bryston Class Introduces Class D

Bryston is pleased to announce that we will be showing two new 8-channel Class D type Zone amplifiers at the upcoming 2008 CEDIA.

The amplifiers will be designated the Bryston D-Series D-130Z Hybrid and the D-250Z Hybrid.



The Bryston "D-Series" Hybrid\* amplifiers will be high to medium powered lightweight, compact, reliable, and highly efficient zone amplifiers for whole house audio distribution or commercial applications. We plan to introduce two more later this year.

**Bryston Class D Advantages**

1. Operates on a split power supply, no floating DC on the outputs
2. Not load dependent



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## Understanding Balanced Powerline Conditioners

Based on a recent Internet posting that came to our attention at Torus there appears to be some misunderstanding regarding Balanced Powerline Conditioners.

Torus Power line conditions can operate on a power line input feed of 120 Volt (single phase) or 240 Volt (dual phase). If the 240 Volt version is used then the Torus Powerline Conditioners are **BALANCED** at the INPUT. In North America the OUTPUT is not balanced and runs Single Phase 120 Volts.

The advantage of operating a Balanced Input or a Balanced Output is noise reduction as a result of the balanced line common mode noise rejection. Given Plitron's proprietary technologies such as:

*NBT*

*Low-Noise*

*Low-Imin*

The Torus Power units have the capability to reduce noise effectively on the output without the need to use Balanced 60V-60V output terminals.

On some larger models Torus uses a 240 Volt Balanced Input because of the noise reduction advantages in the typically long wire runs from the hydro panel to the Torus unit. Torus does not use Balanced Outputs to the equipment though because of the re-



strictions required by the USA electrical codes. The problem with using Balanced 60/120V single phase AC output on a Consumer Powerline Conditioner are the mandatory requirements demanded by the 2005 USA National Electrical Code – Article 647.

The Balanced 60/120 Volt 1-phase AC mandatory installation requirements are:

1. The system is installed only in commercial or industrial occupancies.
2. All junction box covers shall be clearly marked to indicate the distribution panel and the system voltage.

Where receptacles are used as a means of connecting equipment, the following conditions shall be met:

1. All 15 and 20 ampere Torus Power Isolation Units receptacles shall be GFCI protected.
2. All outlet strips, adapters and receptacle covers and

3. Extremely low noise
4. No stability problems when not connected to loads
5. Highly efficient - in the 90% range at full power
6. Environmentally 'green'
7. Lower RFI/EMI due to careful module design
8. A quality linear Bryston power supply
9. Protection includes current limiting and over voltage protection
10. Low output impedance
11. Short circuit protection



faceplates shall be marked with the following words or equivalent:

**WARNING**

**TECHNICAL POWER**

Do not connect to lighting equipment. For electronic equipment use only. 60/120 V. 1-phase AC GFCI protected

In conclusion, if a Torus Powerline Conditioner is used (either 120V Single Phase or a 240V Balanced-Input) in a Consumer installation the advantages are:

1. There is no need for use of GFCI protected receptacles.
2. Torus can be installed in residential as well as commercial and industrial occupancies.
3. Operation of the unit does not require close supervision by qualified personnel.
4. No warning labels required

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