



E 8:2



- ▶ **High power density** – 2 x 400 W in 1U
- ▶ **Certified Energy Star compliant**
- ▶ **Flexible** – IntelliDrive delivers comparable power per channel at 70 V or Low-Z (2, 4 and 8 ohms)
- ▶ **Asymmetric loading** – Allows “mixing and matching” of loads with different impedances to maximize both overall system efficiency and inventory utilization
- ▶ **IDEEA™ output stage based on patented Class D variant**
- ▶ **High efficiency** – Extremely low power consumption and heat output
- ▶ **Auto-standby function** – with power consumption < 1 W in standby state
- ▶ **Exceptionally low lifetime operating costs**
- ▶ **RSL switch** – Innovative circuit senses rail voltage and optimizes output for instantaneous load conditions
- ▶ **Efficient cooling** – One temperature-controlled fan
- ▶ **Comprehensive circuit protection and fault indication**

E Series, built around Lab.gruppen’s eco-friendly IDEEA: IntelliDrive Energy Efficient Amplifier

Specifically designed for greater sustainability through “greener” commercial installations, E Series incorporates the latest advances in Lab.gruppen quality and durability into a complete line of compact (1U) and highly cost-effective two- and four-channel amplifiers.

Small in size, huge in benefits

Building on Lab.gruppen’s touring reputation for sonic excellence and rock-solid durability, E Series brings a competitive edge to the installation market by adding ultra-compact size, high operating efficiency, output configuration flexibility, and an unprecedented cost-benefit ratio.

At the heart of E Series is Lab.gruppen’s IDEEA (IntelliDrive Energy Efficient Amplifier) technology. Based around a patented Class D variant output stage, IDEEA produces high power levels with very low distortion while drawing minimal mains current.

Lab.gruppen’s proprietary Rail Sensing Limiter (RSL™), also exclusive to E Series, greatly reduces signal clipping to ensure high quality audio output at all times. User configurable for Hi-Z (70 V) or Lo-Z, RSL senses rail voltages and optimizes each output for instantaneous load conditions. RSL settings also facilitate asymmetric loading of the channels to optimize performance and efficiency. Total available output power can be allocated among the channels as required by the application. This makes it possible, for example, to drive a small sub on one channel, a number of 70 V ceiling loudspeakers on the second channel.

Lab.gruppen performance with Energy Star compliance

Lab.gruppen’s IDEEA architecture secures full Energy Star compliance by combining net operating efficiency of greater than 80% with an auto-power-down feature. After 20 minutes with no input signal, the amplifier automatically switches to standby mode – with consumption of less than 1 W – and switches back on when an input signal returns. GPIO facilities enable third-party systems to remotely control and monitor power state via contact closure.

Applications

- **Bars & restaurants**
- **Retail outlets**
- **Malls**
- **Hotels & ballrooms**
- **Conference centers**
- **Museums & galleries**
- **Houses of worship**
- **Theme park installations**
- **Educational establishments**
- **Auditoriums**
- **Performing arts centers**
- **Convention centers**
- **Transport hubs**

