

E 4:2







- ► High power density 2 x 200 W in 1U
- Certified Energy Star compliant
- ► Flexible IntelliDrive delivers comparable power per channel at 70 V or Low-Z (2, 4, 8 and 16 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.

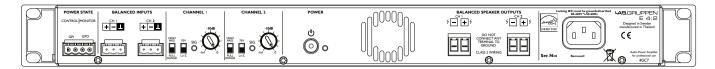
Lab.gruppen performance with Energy Star compliance

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





Specifications E 4:2

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 Number of channels
 2

 Total output all channels driven
 400 W

 Peak output voltage per channel
 100 V / 70 Vrms

 Max. output current
 11 Arms

Max. Output Power (all ch.'s driven)

2 ohms 200 W 4 ohms 200 W

 8 ohms
 200 W (requires the "70 V" mode for the RSL. "Lo-Z" gives 100 W)

 16 ohms
 200 W (requires the "70 V" mode for the RSL, "Lo-Z" gives 50 W)

 70 V
 200 W

100 V Can deliver 200 W to a 100 V load tapped at 400 W

Performance

THD 20 Hz - 20 kHz for 1 W < 0.1% <0.05% THD at 1 kHz and 1 dB below clipping Signal To Noise Ratio >112 dBA Channel separation (Crosstalk) at 1 kHz >70 dB Frequency response 2 Hz - 40 kHz 20 kOhm Input impedance Common Mode Rejection (CMR) 50 dB 25 mOhm Output impedance

Gain, Sensitivity and Limiters

Limit and gain switch defining limit and gain (per channel) 2 pos: Lo-Z and 70 V

100 V VPL for 70 V mode 40 V VPI for Lo-7 mode Sensitivity for stated power into 4 Ohm in Lo-Z mode 4 dBu Sensitivity for 70.7 V out in 70 V mode 4 dBu Sensitivity for stated power into 2 Ohm in Lo-Z mode 1 dBu Sensitivity for stated power into 8 Ohm in 70 V mode -0.9 dBu Sensitivity for stated power into 16 Ohm in 70 V mode 2.1 dBu Gain in 70 V mode 35.2 dB

Gain in Lo-Z mode 27.2 dB
Level adjustment (per channel) Rear panel potentiometer, from -inf to 0 dB

Connectors and switches

Input connectors (per ch.)

3-pin detachable screw terminals, electronically balanced
Output connectors (per ch.)

2-pin detachable screw terminals

High pass filter

Fixed at 50 Hz, switchable per channel

 High pass filter
 Fixed at 50 Hz, switchable per channel

 Power control
 Can be used to go between standby and ON

GPI (power control input)

Contact closure type, 2-pin detachable screw terminal, controls the power state

GPO (power state output)

Contact closure type, 2-pin detachable screw terminal, for external monitoring of the power state

Cooling Single fan, front to rear airflow, temperature controlled speed

Power

Nominal voltage 100 - 240 VAC
Operating voltage 70 - 265 VAC
Standby consumption <1 W
Mains connector IEC inlet

Dimensions W: 483 mm (19"), H: 44 mm (1 U), D: 276 mm (10.9")

Weight 4.2 kg (9.3 lbs)

Finish Dark grey aluminium front and black steel chassis

Approvals CE, RoHS, WEEE, UL 60065, CSA C22.2 No 60065, FCC part 15 Subpart B Class A, PSE, CCC, Energy Star

All specifications are subject to change without notice.

