Compact, cost-efficient power – 2 x 100 W in 1U

Certified Energy Star compliant

Flexible – IntelliDrive delivers comparable power per channel at 70 V or Low-Z (4, 8 and 16 ohms)

Asymmetric loading – Allows “mixing and matching” of loads with different impedances to maximize system efficiency and inventory utilization

IDEEA™ output state based on patented Class D variant

Exceptionally low lifetime operating costs

High efficiency – Extremely low power consumption and heat output

Auto-standby function – Power consumption < 1 W in standby mode

RSL Switch – Innovative circuit senses rail voltage and optimizes output for instantaneous load conditions

Efficient cooling – Dual temperature-controlled fans

Comprehensive circuit protection and fault indication

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 2:2

General
- Number of channels: 2
- Total output all channels driven: 200 W
- Peak output voltage per channel: 100 V / 70 Vrms
- Max. output current: 7.7 Arms

Max. Output Power (all ch.'s driven)
- 2 ohms: N.R.
- 4 ohms: 100 W
- 8 ohms: 100 W
- 16 ohms: 100 W (requires the "70 V" mode for the RSL, "Lo-Z" gives 50 W)
- 70 V: 100 W
- 100 V: Can deliver 100 W to a 100 V load tapped at 200 W

Performance
- THD 20 Hz - 20 kHz for 1 W: <0.1%
- THD at 1 kHz and 1 dB below clipping: <0.05%
- Channel separation (Crosstalk) at 1 kHz: >70 dB
- Frequency response: 2 Hz - 40 kHz
- Input impedance: 112 Ω
- Common Mode Rejection (CMR): 50 dB
- Output impedance: 25 mΩ

Gain, Sensitivity and Limiters
- Limit and gain switch defining limit and gain (per channel): 2 pos: Lo-Z and 70 V
- VPL for 70 V mode: 100 V
- VPL for Lo-Z mode: 40 V
- Sensitivity for stated power into 8 Ohm in Lo-Z mode: 4 dBu
- Sensitivity for 70.7 V out in 70 V mode: 4 dBu
- Sensitivity for stated power into 4 Ohm in Lo-Z mode: 1 dBu
- Sensitivity for stated power into 16 Ohm in 70 V mode: -0.9 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
- 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.