

FP 13000



- ► Unprecedented power density The FP 13000 delivers a total of 13000 W (2 x 6500 W @ 2 ohms) in only 2U
- Lab.gruppen sound quality FP 13000 amplifiers maintain the impeccable sonic performance standards set by the original fP Series, with the same durability and even greater efficiency
- NomadLink® network ready Monitoring and control of key functions accessible via the intuitive DeviceControl software and the robust, daisy-chained NomadLink® network
- Patented Class TD amplifier topology Road-proven output stage delivers Class B audio quality with Class D efficiency
- Regulated Switch Mode Power Supply (R.SMPS) Output power remains constant even with significant drops in the mains voltage

- Efficient cooling system Unique, lightweight Intercooler® copper cooling system dissipates more heat to allow extended peak output
- Adjustable parameters Selectable Gain, scalable Voltage Peak Limiter (VPL), and bridge-mode operation allow custom configuration for any system or application
- ► XLR input and link connectors
- Heavy-duty binding post output connectors
- Comprehensive protection and warning Excessive output current, DC, high temperature, very high frequency (VHF), short circuit, open load, mains fuse protection, and soft start

A Benchmark For Touring Amplification

Over the past decade, the tight and transparent sound of Lab.gruppen touring amplifiers has earned the praise of renowned FOH engineers and leading sound rental companies worldwide. FP 13000, the flagship model of the FP+ Series, continues this tradition. At the core of the FP 13000's performance is the patented Class TD output stage, a breakthrough amplifier topology that approaches the exceptional efficiency of Class D while retaining the sonic purity of proven Class B. Further contributing to the remarkable efficiency of the FP 13000 is a Regulated Switch Mode Power Supply (R.SMPS), which gives the added benefit of stabilizing rail voltages to the output even with wide fluctuations of mains voltage. A highly refined and updated circuit layout optimizes the interaction of R.SMPS and Class TD to produce the extraordinary power density of the FP 13000.

To keep its cool under extreme demands, the FP 13000 relies on Lab.gruppen's proprietary Intercooler®. This innovation uses thousands of copper fins to multiply the exposed heatsink surface's rapid heat dissipation. Also, all output devices are mounted transverse to the airflow for uniform cooling. As a result, the FP 13000 delivers Lab.gruppen's' trademark "all the power, all the time" with no degradation of sonic performance.

To maximize headroom in any application, the FP 13000 offers adjustable input gain along with Lab.gruppen's exclusive Voltage Peak Limiter (VPL). Adjustable on a per-channel basis, VPL optimizes the output for any load, from a single massive subwoofer to a series of HF compression drivers.

The comprehensive warning and protection features on the FP 13000 safeguard output circuits and connected loads while also extending amplifier life and minimizing the chance of service interruptions. Whether it's a matter of faulty wiring, improper use, or extreme ambient temperatures, the FP 13000 gives clear indication of any problems. Automatic protection measures engage only at critical thresholds. Operating conditions are re-checked every six seconds and, if a fault is detected, normal operation is resumed when measurements return to nominal.

The FP 13000 is shipped with a NomadLink® network interface as standard. In conjunction with DeviceControl software, NomadLink® allows monitoring of all key amplifier parameters and remote control of power on/off, channel mutes, and channel solo functions. (NomadLink® requires the separate NLB 60E NomadLink® Bridge & Network Controller).





Specifications FP 13000

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Number of channels 13000 W Peak total output both channels driven Peak output voltage per channel 195 V Max. output current per channel 58 Arms

Max. Output Power 2 ohms 4 ohms 8 ohms 16 ohms Per ch. (both ch.'s driven) 6500 W 4400 W 2350 W 1200 W 13000 W 8800 W 4700 W Bridged per ch. - 3)

Performance with Gain: 35 dB and VPL: 195 V

THD 20 Hz - 20 kHz for 1 W < 0.1% THD at 1 kHz and 1 dB below clipping <0.05% >112 dBA Signal To Noise Ratio Channel separation (Crosstalk) at 1 kHz >70 dB 6.8 Hz - 34 kHz Frequency response (1 W into 8 ohms) +0/-3 dB Input impedance 20 kOhm Input Common Mode Rejection, CMR 54 dB Output impedance @ 100 Hz 19 mOhm 20 V/microsecond

Voltage Peak Limiter (VPL), max. peak output

195, 170, 140, 116, 100, 80, 66, 54 V VPL, selectable per ch. 390, 340, 280, 232, 200, 160, 132, 108 V VPI selectable when bridged Voltage Peak Limiter mode (per ch.) Hard / Soft

Gain and Level

Amplifier gain selectable (all channels) 1 23, 26, 29, 32, 35, 38, 41, 44 dB

- rear-panel switches

Default gain 38 dB

Level adjustment (per ch.) Front-panel potentiometer, 21 position detented from -inf to 0 dB

Connectors and Switches

Output slew rate into 8 ohms

3-pin XLR, electronically balanced Input connectors (per ch.) Binding Posts 2-pole Output connectors (per ch.)

Output bridge mode A+B - Ch. A is signal input source NomadLink® network On board, 2 x RJ45 EtherCon connectors, IN and OUT

Intelligent fans (on/off) Yes, depending on presence of output signal Power on/off and Remote enable on/off Individual switches on front-panel

Cooling Two fans, front-to-rear airflow, temperature controlled speed

Front-panel indicators:

NomadLink® Network; Power Average Limiter (PAL) 2); Power on Common

Signal present / High-impedance; -20 dB, -15 dB, -10 dB and -4 dB output signal; Per channel

Voltage Peak Limiter (VPL); Current Peak Limiter (CPL): Very High Frequency (VHF); High temperature; Fault; Mute

Operating voltage, 230 V / 115 V nominal ⁴ 130-265 V / 65-135 V 171 V / 85 V Minimum power-up voltage, 230 V / 115 V Power Average Limiter (PAL) 2 Yes Soft start / Inrush Current Draw Yes / max. 5 A

230 V CE: 16 A, CEE7; 115 V ETL: 30 A Twist lock Mains connector

Dimensions (W/H/D) W: 483 mm (19"), H: 88 mm (2 U), Overall D: 396 mm (15.6"), Mounting D: 358 mm (14.1")

Weight 12 kg (26.4 lbs.)

Black painted steel chassis with black painted steel / aluminum front

Approvals CE, ANSI/UL 60065 (ETL), CSA C22.2 NO. 60065, FCC

Note 1): Automatic -6 dB gain compensation when bridging channels.

Note 2): PAL can reduce the maximum output power to keep the power supply operating safely, and/or to prevent excessive current draw tripping the mains breaker. Refer to Operation Manual.

Note 3): The amplifier will be fully operational at bridge-mode 2 ohm loads, but due to physical constraints in the construction, the max. output power will not be significantly higher than running individual channels and therefore not stated here

Note 4): Separate 230 V or 115 V versions available. Not selectable on the amplifier.

All specifications are subject to change without notice.

