

► Unprecedented power density – The FP 7000 delivers a total of 7000 W (2 x 3500 W @ 2 ohms) in only 2U

FP 7000

- Lab.gruppen sound quality FP 7000 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 or Speakon 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 7000, one of four models in the FP+ Series, continues this tradition. At the core of the FP 7000'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 designs. Further contributing to the remarkable efficiency of the FP 7000 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 7000.

To keep its cool under extreme demands, the FP 7000 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 7000 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 7000 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 7000 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 7000 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 7000 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 7000

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General				
Number of channels	2			
Peak total output both channels driven	7000 W			
Peak output voltage per channel	155 V			
Max. output current per channel	42 Arms			
Max. Output Power	2 ohms	4 ohms	8 ohms	16 ohms
Per ch. (both ch.'s driven)	3500 W	2800 W	1450 W	730 W
Bridged per ch.	- 3)	7000 W	5600 W	2900 W
Performance with Gain: 35 dB and VPL: 155 V				
	<0.1%			
THD 20 Hz - 20 kHz for 1 W				
THD at 1 kHz and 1 dB below clipping	<0.05%			
Signal To Noise Ratio	>112 dBA			
Channel separation (Crosstalk) at 1 kHz	>70 dB			
Frequency response (1 W into 8 ohms) +0/-3 dB	6.8 Hz - 34 kHz			
Input impedance	20 kOhm			
Input Common Mode Rejection, CMR	50 dB			
Output impedance @ 100 Hz	19 mOhm			
Output slew rate into 8 ohms	20 V/microseco	nd		
Voltago Book Limitor (V/PL) move pock output				
Voltage Peak Limiter (VPL), max. peak output VPL, selectable per ch.	155 101 101 0	2 70 56 17 201/		
	155, 121, 101, 83, 70, 56, 47, 38 V 310, 242, 202, 166, 140, 112, 94, 76 V			
VPL, selectable when bridged ¹⁾				
Voltage Peak Limiter mode (per ch.)	Hard / Soft			
Gain and Level				
Amplifier gain selectable (all channels) 1)				
– rear-panel switches	23, 26, 29, 32, 35, 38, 41, 44 dB			
Default gain	38 dB			
Level adjustment (per ch.)	Front-panel potentiometer, 21 position detented from -inf to 0 dB			
	front partor pote			
Connectors and Switches				
Input+Link connectors (per ch.)	3-pin XLR, electronically balanced			
Output connectors (per ch.)	Neutrik Speakon or Binding Posts (must be specified upon order)			
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:	A		11 1. (DA11.2) D	
Common	NomadLink® Network; Power Average Limiter (PAL) ² ; Power on			
Per channel	Signal present/High-impedance; -20 dB, -15 dB, -10 dB and -4 dB output signal;			
	Voltage Peak Limiter (VPL); Current Peak Limiter (CPL): Very High Frequency (VHF); High temperature; Fault; Mute			
Power	100 0001111	051/		
Operating voltage, 230 V / 115 V nominal 4)	130-265 V / 65-135 V			
Minimum power-up voltage, 230 V / 115 V	171 V / 85 V			
Power Average Limiter (PAL) 2)	Yes			
Soft start / Inrush Current Draw	Yes / max. 5 A			
Mains connector	230 V CE: 16 A,	CEE7; 115 V ETL: 30 A	Twist lock	
Dimensions (W/H/D)	W/- 102 mm /10	") H: 88 mm (2 LI) Ou	erall D: 396 mm /15 6'	() Mounting D: 358 mm (14.1")
	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			
Finish	Black painted st	eei chassis with black	painted steel / aluminu	
Approvals	CE ANSI/UL 60	065 (ETL), CSA C22.2	NO 60065 ECC	
Approvals	6L, ANG/0L 00	000 (LIL), COA 022.2	140. 00000, 1 00	

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.



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