



fp Series

Proven Reliability in Touring Amplification

「最もクールなパワーアンプ」と世界中の PA エンジニアに愛されてきた fp シリーズの実力は、長年にわたる過酷なツアー環境下での使用において既に実証済み。

フラッグシップ・モデルである fp 6400 と fp 3400 は Lab.gruppen 社の特許技術である Class TD® を初めて搭載した製品でもあります。ハイパワーでありながら驚異的な軽量化を実現した fp シリーズは、独自のインタークーラー方式によるクーリングや各種プロテクション回路は高い耐久性と信頼性を実現しています。fp シリーズのレスポンスの速いサウンドはスピーカーを正確にドライブし、低域から高域まで鮮明に再現します。

fp Series: 主な特徴

- ・ハイパワーながら軽量化を実現する Regulated Switch Mode Power Supply (R.SMPS™)
- ・独自 Intercooler® 冷却システム
- ・MPGS：マルチポジション・ゲインスイッチ
- ・ロードに対して各アンプ出力をカスタマイズできる Matching Load System (MLS™)
- ・Class D のトポロジーと Class AB のサウンド・クオリティを両立させる Class TD® テクノロジー採用

▶ fp 6400/fp 3400



▶ fp 2600/fp 2200



▶ fp 2400Q



fp SERIES AT A GLANCE

MAXIMUM OUTPUT POWER/CHANNEL

Model	Chan.	2 ohms	4 ohms	8 ohms
fp 6400	2	3200 W	2300 W	1300 W
fp 3400	2	1700 W	1500 W	1100 W
fp 2600	2	1200 W	840 W	430 W
fp 2200	2	1100 W	650 W	350 W
fp 2400Q	4	640 W	380 W	370 W



Specifications fP Series

Model	fP 6400	fP 3400	fP 2600	fP 2200	fP 2400Q
Max. Output Power *1					
8 Ω per channel	1300 W	1100 W	430 W	350 W	380 W
4 Ω per channel	2300 W	1500 W (1900 W *2, *3)	840 W	650 W	590 W *3 (700 W *2, *3)
2 Ω per channel	3000 W (3200 W *2, *3)	1700 W (3000 W *2, *3)	1200 W (1540 W *2, *3)	1100 W	500 W *4 (650 W *2, *3, *4)
8 Ω bridged	4600 W	3000 W	1680 W	1400 W	760 W *4, *5
8 Ω bridged	6000 W	3400 W	2400 W	2200 W	1020 W *4, *5 (1280 W *2, *3, *4, *5)
Max. Output Voltage					
8 ohms load	104 Vrms	91 Vrms	59 Vrms	53 Vrms	54 Vrms
Peak voltage, no load	149 V	132 V	85 V	77 V	81 V
Distortion etc.					
THD 20Hz - 20kHz / 1W to full power	0.1%	0.08%	0.04%	0.3%	0.07%
THD 1kHz / -1dB under clip	0.04%	0.03%	0.01%	0.006%	0.02%
DIM 30 @ -3dB under clip	0.06%	0.06%	0.008%	0.008%	0.008%
Hum & Noise					
	< -110 dB	< -110 dB	< -110 dB	< -110 dB	< -107 dB
Channel separation @ 10kHz	70 dB	70 dB	70 dB	70 dB	70 dB
Output impedance	60 mOhms	60 mOhms	30 mOhms	30 mOhms	30 mOhms
Slew rate	20 V/μsec	20 V/μsec	60 V/μsec	40 V/μsec	60 V/μsec
Inputs					
Gain selectable [dB]	20, 23, 26, 29, 32, 35, 38, 41	20, 23, 26, 29, 32, 35, 38, 41	20, 23, 26, 29, 32, 35, 38, 41	20, 23, 26, 29, 32, 35, 38, 41	32
Impedance	20 kOhms	20 kOhms	20 kOhms	20 kOhms	20 kOhms
Common mode rejection	50 dB	50 dB	50 dB	50 dB	50 dB
Front Panel					
Gain controls	31 pos detent	31 pos detent	31 pos detent	31 pos detent	31 pos detent
Indicators per channel:					
Clip	Red LED	Red LED	Red LED	Red LED	Red LED
Output headroom	5 x green LEDs	5 x green LEDs	5 x green LEDs	5 x green LEDs	5 x green LEDs
Protect (Short & VHF)			Yellow LED	Yellow LED	
Protect (Short, temp & VHF)					Yellow LED
VHF	Yellow LED	Yellow LED			
Over temperature	Yellow LED	Yellow LED	Yellow LED	Yellow LED	
Rear Panel					
Input connectors	Neutrik Combo	Neutrik Combo	Neutrik Combo	Neutrik Combo	Neutrik Combo
Link connectors	XLR male	XLR male	XLR male	XLR male	N/A
Clip limiters	On/Off, each ch.	On/Off, each ch.	On/Off, each ch.	On/Off, each ch.	On/Off, each ch.
MLS switch [dB]	0, -2, -4, -5	0, -2, -4, -5	0, -3	N/A	0, -3
- corresponding to [Vrms]	104, 84, 70, 62	104, 84, 70, 62	59, 45	53	55, 41
- when bridged [Vrms]	208, 168, 140, 124	208, 168, 140, 124	118, 90	106	110, 82
Link switch	Ch. A-B	Ch. A-B	Ch. A-B	Ch. A-B	Ch. A-B, B-C, C-D
Power					
Operation voltage, 230 V 115 V	130 - 265 V 65 - 135 V	130 - 265 V 65 - 135 V	130 - 265 V 65 - 135 V	130 - 265 V 65 - 135 V	130 - 265 V 65 - 135 V
Soft start	Yes	Yes	Yes	Yes	Yes
Peak inrush current	5 A	5 A	5 A	5 A	5 A
Full output power @ 4 Ohms, 230V 115V	180 - 265 V 90 - 130 V	180 - 265 V 90 - 130 V	180 - 265 V 90 - 130 V	180 - 265 V 90 - 130 V	180 - 265 V 90 - 130 V
Minimum start-up voltage, 230V 115V	175 V 95 V	175 V 95 V	175 V 95 V	175 V 95 V	175 V 95 V
Current Draw @ 4 ohms & 230 V 115 V					
Idle, no load at output	1.0 Arms 2.0 Arms	1.0 Arms 2.0 Arms	1.0 Arms 2.0 Arms	0.9 Arms 1.8 Arms	1.4 Arms 2.8 Arms
1/8 of full power (-9 dB)	6 Arms 12 Arms	5 Arms 10 Arms	6 Arms 12 Arms	5 Arms 10 Arms	6 Arms 12 Arms
1/3 fo full power (-5 dB)	14 Arms 28 Arms	11 Arms 22 Arms	9 Arms 18 Arms	8 Arms 16 Arms	9 Arms 18 Arms
At full power (0 dB) @ 1 kHz 1% THD	20 Arms 40 Arms	26 Arms 52 Arms	16 Arms 32 Arms	14 Arms 28 Arms	16 Arms 32 Arms
Dimensions mm					
Width	483	483	483	483	483
Height	88	88	88	88	88
Depth	347	347	287	287	316
Weight					
	10.0 kg	10.0 kg	8.0 kg	7.9 kg	8.6 kg
Approvals					
CE:	Immunity EN 55 103-2, E3, with S/N below 1% @ normal operation level Safety EN 60 065, class 1	1) Both channels driven, MLS = 0 dB. Measured with 33% duty cycle (33 ms 1 kHz sinusoidal burst). 2) One channel driven or peak power both channels driven. 3) Thermal protection may occur at continuous high power.			
ETL listed:	Conforms to ANSI/UL STD 6500 and Certified to CAN/CSA E60065-00	4) MLS = -3 dB. 5) Per bridged channel pair. Channels A/B and C/D may be bridged independently.			
FCC:	Complies with Class B digital device, Part 15 of the FCC Rules	6) +6 dB when bridged.			