



# Wharfedale Pro DP-2200F DP-F Series DSP Multi Channel Power Amplifiers User Manual

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*Wharfedale  
Pro*

## Wharfedale Pro DP-2200F DP-F Series DSP Multi Channel Power Amplifiers



## IMPORTANT WARNINGS & SAFETY INSTRUCTIONS

1. Read these instructions
2. Follow all instructions
3. Keep these instructions
4. Heed all warnings
5. Do not use this apparatus near water
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of a polarised or grounding plug. A polarised plug has two blades with one wider than the other. A grounding plug has two blades and a third grounding blade. The wide blade or the third blade is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at the plug, receptacle and or the point where it exits from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Only use a stand, tripod, bracket or rack specified by the manufacturer, or sold with the apparatus. When a rack is used, use caution when moving the rack and apparatus combination to avoid tip-over or injury.
13. Unplug the apparatus during lightning storms or when unused for long periods of time.
14. . Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way Including but not limited to power Supply cord or plug damage, liquid ingress, foreign objects in the chassis, exposure to rain/moisture or impact damage. In addition the unit must be serviced when you experience any abnormal operation.
15. CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not attempt to perform any servicing other than that contained in the operating instructions unless you are qualified to do so. In addition opening the casing will result in your warranty becoming null and void.
16. Do not install this apparatus in a confined space such as a book case or similar unit. Good ventilation should be maintained around the apparatus. Any vents, air-inlets or fans should not be obstructed by objects such as paper, table-cloths, curtains etc.
17. WARNING: To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture. The apparatus should not be exposed to dripping or splashing and objects filled with liquids, such as vases, should not be placed on the appa The mains plug IS.
18. WARNING: The mains plug/appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.

## INTRODUCTION

Congratulations on the purchase of your DP-F series professional power amplifier. Wharfedale Pro DP-F amplifiers are the result of many years of experience in the use, design and manufacture of professional audio equipment. We take great pride in engineering and building every Wharfedale Pro product and wish to thank you for entrusting us with your sound. From the time Gilbert Briggs built his first loudspeaker in 1932, to the present day, Wharfedale has maintained the same standard of quality in components, workmanship and performance. Please take the time to read this manual completely in order to ensure that you get the most from your DP-F power amplifier.

## ABOUT THE DP-F SERIES

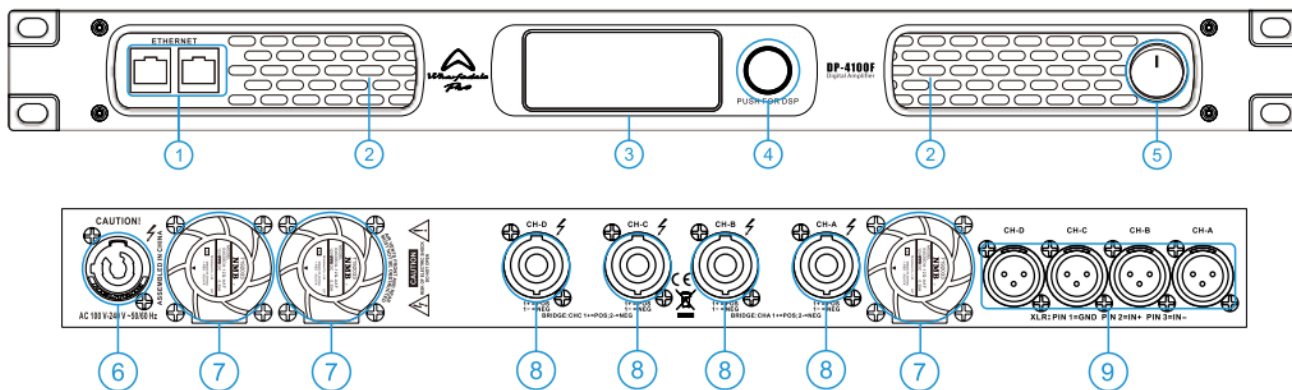
DP-F series have been engineered for mid sized venues, rental and touring applications. Enormous output power and stability at 2 ohms are features that already make DP amps special- but DP-F models also feature hugely upgraded DSP functionality. The DSP now has FIR filtering with 512 taps. This refined and powerful FIR filtering brings linear phase response to the system, resulting in a more controllable and faithful output. Input connectivity is now handled by the front panel dual RJ45 connectors allowing the DP-F to be used in an ETHERNET ecosystem with remote DSP control. DP-F series also feature a wide range AC power input and are happy with huge voltage fluctuations between 90 V and 260 V. In addition, DP-F series can drive 70 V or 100 V line systems! Think dif-FIR-ently about amps!

## FEATURES

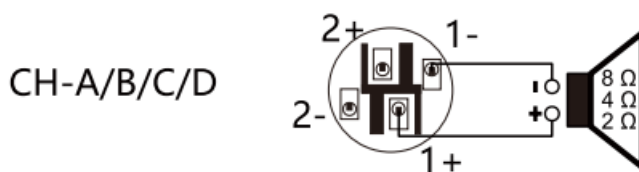
	DP-2200F	DP-4100F	DP-4065F	DP-4035F
8 $\Omega$	2 x 2000 W	4 x 1000 W	4 x 650 W	4 x 350 W
4 $\Omega$	2 x 3400 W	4 x 1700 W	4 x 1100 W	4 x 595 W
2 $\Omega$	2 x 4760 W	4 x 2890 W	4 x 1870 W	4 x 1010 W
16 $\Omega$ Bridged	1 x 4000 W	2 x 2000 W	2 x 1300 W	2 x 700 W
8 $\Omega$ Bridged	1 x 6800 W	2 x 3400 W	2 x 2200 W	2 x 1190 W
4 $\Omega$ Bridged	1 x 9520 W	2 x 5780 W	2 x 3740 W	2 x 2020 W
100 V Hi-Z	2 x 3400 W	—	—	—
70 V Hi-Z	2 x 2400 W	4 x 1700 W	4 x 1100 W	—

- Huge Class D power in a 1 U rack
- 2 or 4 discrete amplification channels
- Internal DSP and computer control
- Stable down to 2  $\Omega$ . Drive multiple speakers or line array elements
- FIR filtering with 512 taps
- 90 V to 260 V AC working voltage
- 70 V or 100 V compatible

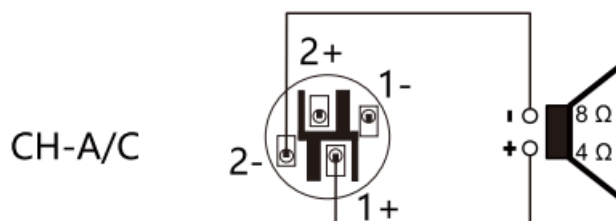
## INTRODUCTION



1. Dual RJ45 network interfaces: Network monitoring interface(Built in switch chip).
2. Cooling vents. Forced airflow from front to back through the air filter.
3. Integrated LCD control screen with backlight.
4. Control knob. Turn to select the DsP menu and press to confirm.
5. Mains Power switch. Used to turn the power on and off. When I is pressed, the power is turned on.
6. Mains Power input. Neutrik powerCon 20 A.
7. Fan. Provides forced ventilation for front to back cooling.
8. Output connectors for connection to passive loudspeakers. In stereo or single-channel mode, connect the speakers to the socket using the following methods



In bridge mode, use the following method to connect the speaker to the socket:

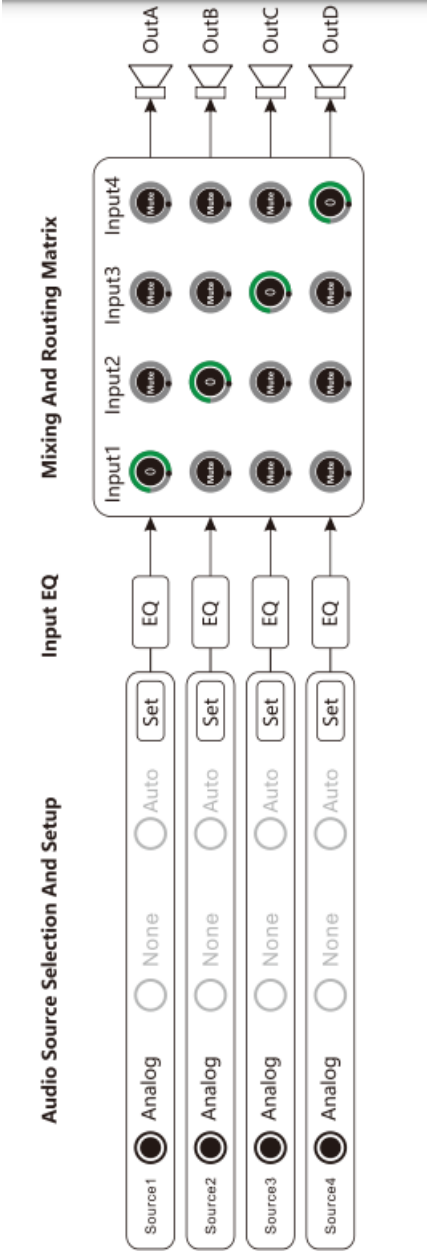


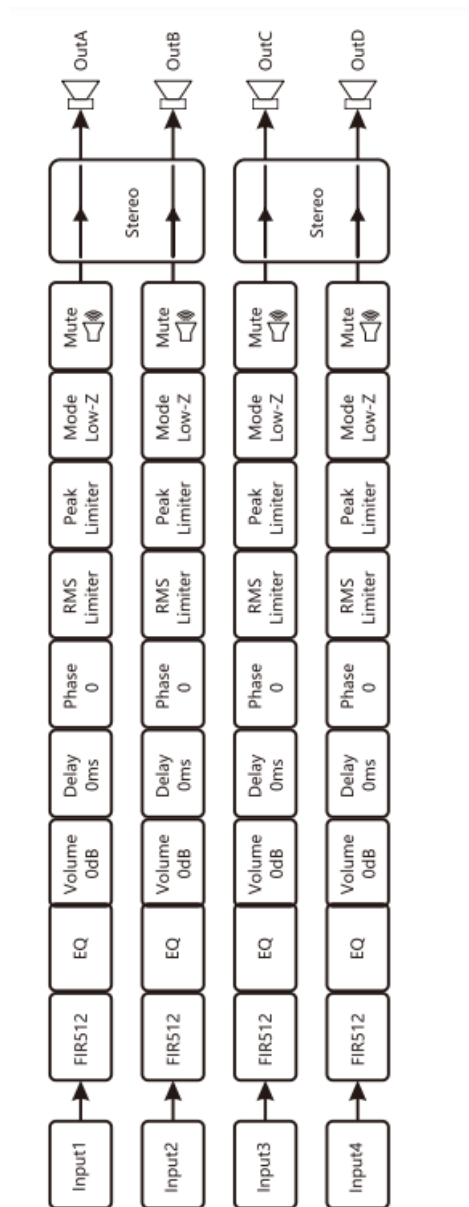
9. XLR Balanced signal input connectors.

## DSP SIGNAL FLOW

### Input part

Output part





## SPECIFICATIONS

- Test signal: Pink Noise, bandwidth limited from 22 Hz to 22 kHz 1/8 power is typical of program material with occasional clipping. Refer to these figures for most applications. 1/3 power represents program material with extremely heavy clipping

## 4 x 350 W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220 V	110 V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.6	1.3	140.0	0.0	140.0	477.8	120.4
1/8 power	8 Ω/CH	1.6	3.2	347.2	250.0	97.2	331.8	83.6
	4 Ω/CH	2.6	5.2	574.3	425.0	149.3	509.6	128.4
1/3 power	8 Ω/CH	3.7	7.5	823.0	666.7	156.4	533.7	134.5
	4 Ω/CH	6.3	12.6	1382.1	1133.3	248.8	849.0	214.0

## 4 x 650 W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220 V	110 V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.6	1.3	140.0	0.0	140.0	477.8	120.4
1/8 power	8 Ω/CH	2.1	4.1	451.4	325.0	126.4	431.3	108.7
	4 Ω/CH	3.4	6.8	743.2	550.0	193.2	659.5	166.2
1/3 power	8 Ω/CH	4.9	9.7	1070.0	866.7	203.3	693.8	174.8
	4 Ω/CH	8.1	16.3	1788.6	1466.7	322.0	1098.7	276.9

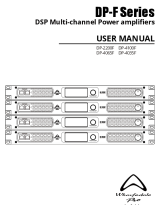
## 4 x 1000 W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220 V	110 V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.7	1.5	160.0	0.0	160.0	546.0	137.6
1/8 power	8 Ω/CH	3.2	6.3	694.4	500.0	194.4	663.6	167.2
	4 Ω/CH	5.2	10.4	1148.6	850.0	298.6	1019.2	256.8
1/3 power	8 Ω/CH	7.5	15.0	1646.1	1333.3	312.8	1067.3	269.0
	4 Ω/CH	12.6	25.1	2764.2	2266.7	497.6	1698.0	427.9

## 2 x 2000 W

		Line Current(A)		Power(W)			Thermal Dissipation	
	LOAD	220 V	110 V	IN	OUT	Dissipated	Btu/h	kcal/h
standby		0.5	1.0	110.0	0.0	110.0	375.4	94.6
1/8 power	8 Ω/CH	3.2	6.3	694.4	500.0	194.4	663.6	167.2
	4 Ω/CH	5.2	10.4	1148.6	850.0	298.6	1019.2	256.8
1/3 power	8 Ω/CH	7.5	15.0	1646.1	1333.3	312.8	1067.3	269.0
	4 Ω/CH	12.6	25.1	2764.2	2266.7	497.6	1698.0	427.9

## Documents / Resources

 <p><b>DP-F Series</b> DSP Multi-channel Power amplifiers <b>USER MANUAL</b> DP-2200 DP-4100F DP-4065F DP-4035F</p>	<p><a href="#">Wharfedale Pro DP-2200F DP-F Series DSP Multi Channel Power Amplifiers</a> [pdf] User Manual</p> <p>DP-2200F, DP-4100F, DP-4065F, DP-4035F, DP-F Series, DSP Multi Channel Power Amplifiers, DP-2200F DP-F Series DSP Multi Channel Power Amplifiers, Multi Channel Power Amplifiers, Power Amplifiers, Amplifiers</p>
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