DP SERIES | Professional Power Amplifier OPERATING MANUALAND USER GUIDE

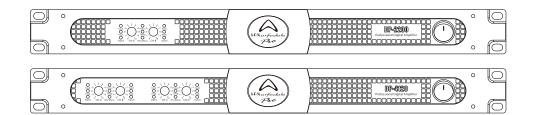




TABLE OF CONTENTS

TABLE OF CONTENTS	1
IMPORTANT WARNINGS & SAFETY INSTRUCTIONS	2
INTRODUCTION	3
ABOUT THE DP SERIES	3
FEATURES	3
FRONT PANEL FEATURES AND CONTROLS	4
REAR PANEL FEATURES AND CONTROLS	5
QUICK START GUIDE	6
DIMENSIONS	7
WIRING DIAGRAMS	8
POWER CONSUMPTION AND HEAT	11
GAIN AND SENSITIVITY	12
SPECIFICATION	13
WHARFEDALE PRO LIMITED WARRANTY	16

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 apparatus.
- 18. WARNING: The mains plug/appliance coupler is used as a disconnect device, the disconnect device shall remain readily operable.



- 19. The lightning fiash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of non-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
 - Warning: To reduce the risk of electric shock, do not remove the cover (or back) as there are no user-serviceable parts inside. Refer servicing to qualified personnel.
 - The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.
- 20. (Protective earthing terminal) The apparatus should be connected to a mains socket outlet with a protective earthing connection.
- 21. Correct Disposal of this product. This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use local return and collection systems or contact the retailer where the product was purchased. They can take this product for safe environmentally friendly recycling.

INTRODUCTION

Congratulations on the purchase of your DP series professional power amplifier. Wharfedale Pro DP 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 have 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 power amplifier.

ABOUT THE DP SERIES

Suitable for professional sound reinforcement or fixed installations, the series feature 5 models that deliver between 760W and 3400W per channel into a 4 ohm load in a rugged 1U, 19" rack mount enclosure. An advanced switch mode supply and Class D topology deliver high power with low distortion in a compact size and light weight form factor.

A full suite of protection includes thermal, over-current, DC, short circuit protect and power on/off mute. The DP Series features XLR inputs with a maximum input level of +22dBu allowing integration with any typical professional audio system. The variable speed fans keep the amplifier rack quiet when not in use. The DP series features 3 different operating modes, parallel, stereo and bridge.

FEATURES

- DP-4035: 595W*4@4Ohms (RMS), 350W*4@8Ohms (RMS), 1190W*2@8Ohms (BTL)
- DP-4065: 1100W*4@4Ohms (RMS), 650W*4@8Ohms (RMS), 2200W*2@8Ohms (BTL)
- DP-4100: 1700W*4@4Ohms (RMS), 1000W*4@8Ohms (RMS), 3400W*2@8Ohms (BTL)
- DP-4120: 2040W*4@4Ohms (RMS), 1200W*4@8Ohms (RMS), 4080W*2@8Ohms (BTL)
- DP-2200: 3400W*2@4Ohms (RMS), 2000W*2@8Ohms (RMS), 6800W@8Ohms (BTL)
- XLR inputs
- 3 operation modes (MONO, STEREO and BRIDGE)
- · Power, Protect, Signal and Limiter indicators
- Thermal protect, over current protect, DC protect, output short protect
- · Ultra quiet variable speed fans
- · Speakon outputs for speaker
- Stable at 2Ω operation

FRONT PANEL FEATURES AND CONTROLS



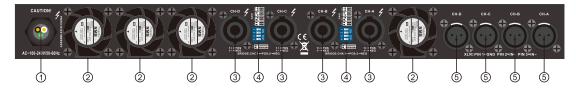
	Icon	function	illustration
1	• Fault	Protection	When there is protection the LED is red.
2	Peak	Clip	When the output signal is distorted by more than 1%, or when the power is compressed, the LED is yellow
3	Signal	Signal LED	When the input signal is greater than "-32dB", the LED is green;
4	•	Volume	Adjust the output amplitude of the amplifier
5	Temp	Temperature	When the temperature limiter is activated, the LED turns yellow.
6	BTL/MONO	Mode	When in BTL/MONO mode the LED is yellow.
7	POWER	Power LED	When the power supply is working the LED is green;
8		Power switch	ON/OFF control. It is ON when "I" is pressed down.

REAR PANEL – FEATURES AND CONTROLS

Rear panel for:DP-2200



Rear panel for:DP-4035/4065/4100/4120

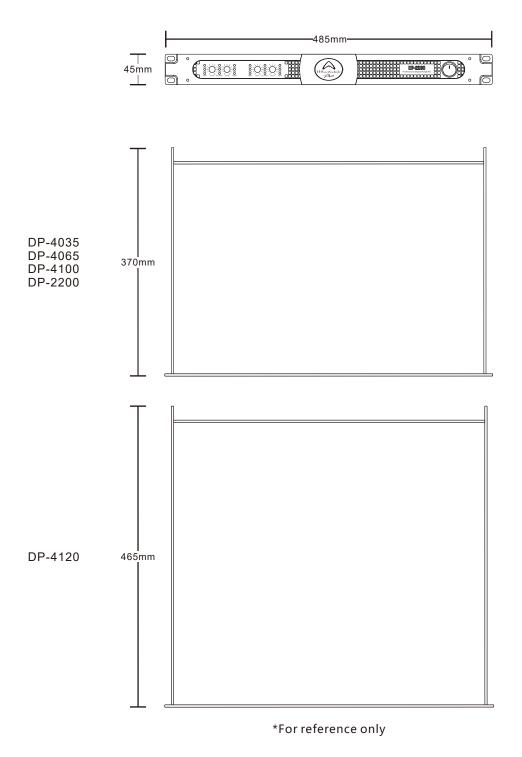


	Icon	function	illustration
1	•	Power supply input	DP-4120:10A,3X2.5mm ² Power cord; DP-2200、DP-4065、DP-4100:10A,3X1.5mm ² Power cord; DP-4035:10A,3X1.0mm ² Power cord.
2		FAN	Ultra quiet variable speed fans
3		Speakon	In order to enhance the current capacity in the amplifier the 1+ and 2+ have been connected together, the 1- and 2- have been connected together.
	2	Gain switch	Set to 41dB, the amplifier voltage gain is 41dB; Set to 38dB, the amplifier voltage gain is 38dB; and so on.
4	3 MONOGRAPO	Mode switch	STEREO Each channel is independant. CHA input signal output from CHA; CHB input signal output from CHB; and so on. MONO/BRDG CHA input signal output from CHA and CHB; CHC input signal output from CHC and CHD.
4	S S S S S S S S S S S S S S S S S S S	CLIP Switch	Set to ON, the clipping limiter is turned on; Set to OFF, the clipping limiter is turned off.
5	<u></u>	Signal input	Female XLR : Balanced audio input plug
6		Signal input	Male XLR: Balanced audio input plug

QUICK START GUIDE

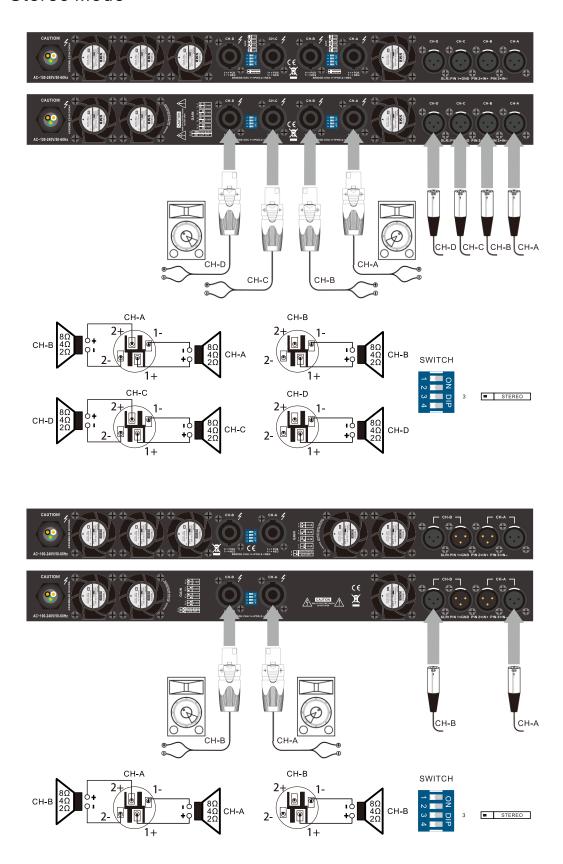
- 1. Make sure that the power switch is set at the OFF position while making connections to and from the power amplifier
- 2. Connect all devices in the signal path and ensure that each connection is secure.
- 3. Set all level and gain controls to their minimum.
- 4. After powering up all other devices first, turn the power switch on the amplifier to the 'ON' position and verify that the POWER LED is illuminated.
- 5. Turn the amplifier volume control up to the "7" setting. (This setting can be adjusted higher or lower, as needed, after set-up). With source signal present start to set each gain stage in your signal path, starting at the beginning of the chain. It is best practice to make overall volume changes with the master fader of your mixing console once the amplifier input trim has been calibrated.
- 6. When powering down, make sure that the power amplifiers are switched off first.

DIMENSIONS

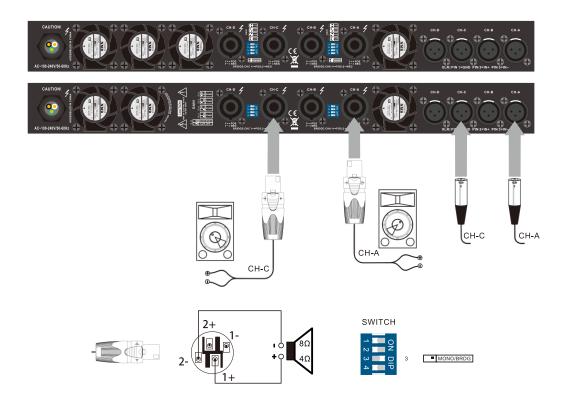


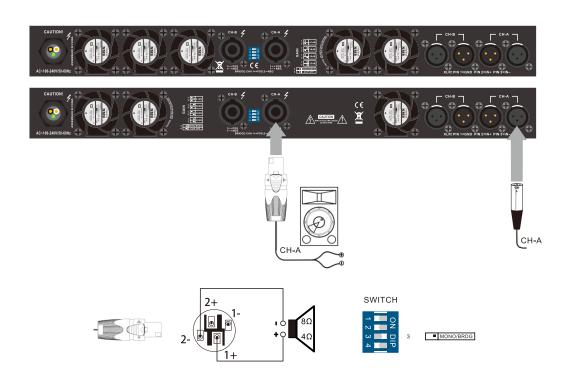
WIRING DIAGRAM

Stereo Mode

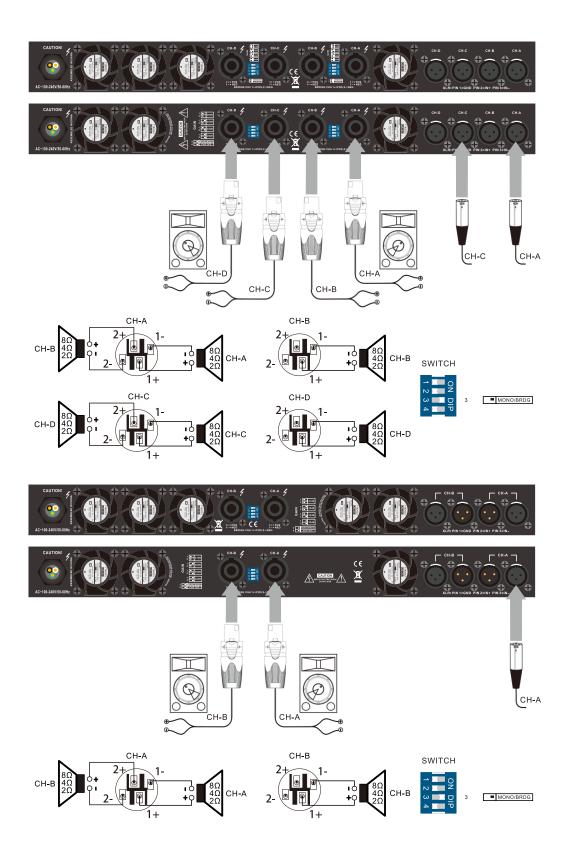


Bridge mode





Mono mode



Power consumption and heat

Test signal: Pink Noise, bandwidth limited from 22Hz to 22kHz

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.

DP-4035

		Line Cu	rrent(A)		Power(W)		Thermal D	issipation
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
star	ndby	0.2	0.4	40.0	0.0	40.0	136.5	34.4
1/8 power	8Ω/CH	1.1	2.2	243.1	175.0	68.1	232.3	58.5
178 power	4Ω/CH	1.8	3.7	402.0	297.5	104.5	356.7	89.9
1/3 power	8Ω/CH	2.6	5.2	576.1	466.7	109.5	373.6	94.1
1/3 power	4Ω/CH	4.4	8.8	967.5	793.3	174.1	594.3	149.8

DP-4065

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

DP-4100

		Line Cu	rrent(A)		Power(W)		Thermal D	Dissipation
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
star	ıdby	0.7	1.5	160.0	0.0	160.0	546.0	137.6
1/8 power	8Ω/CH	3.2	6.3	694.4	500.0	194.4	663.6	167.2
1/6 power	4Ω/CH	5.2	10.4	1148.6	850.0	298.6	1019.2	256.8
1/3 power	8Ω/CH	7.5	15.0	1646.1	1333.3	312.8	1067.3	269.0
1/3 power	4Ω/CH	12.6	25.1	2764.2	2266.7	497.6	1698.0	427.9

DP-4120

		Line Cu	rrent(A)		Power(W)		Thermal D	issipation
	LOAD	220V	110V	IN	OUT	Dissipated	Btu/h	kcal/h
star	ndby	0.8	1.5	170.0	0.0	170.0	580.2	146.2
1/8 power	8Ω/CH	3.8	7.6	833.3	600.0	233.3	796.3	200.7
170 power	4Ω/CH	6.3	12.5	1378.4	1020.0	358.4	1223.0	308.2
1/3 power	8Ω/CH	9.0	18.0	1975.3	1600.0	375.3	1280.8	322.8
1/3 power	4Ω/CH	15.1	30.2	3317.1	2720.0	597.1	2037.6	513.5

DP-2200

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

*1W=0.860kal/h,1BTU=0.252kcal

Gain and sensitivity

The user can set the power amplifier's sensitivity through the switch on the back panel, so as to match with the third party devices. 26dB,29dB, 32dB,35dB, 38dB,41dB are selectable. Input signal: 1kHz sine wave, Amplitude value is RMS.

GAIN(dB)	DP-4035	DP-4065	DP-4100	DP-4120	DP-2200
26	2.65V	_	_	_	_
29	1.88 V	2.56V	3.17V	_	_
32	1.33V	1.81V	2.25V	2.46V	3.18V
35	0.94 V	1.28V	1.59V	1.74V	2.25V
38	_	0.91V	1.13V	1.23V	1.59V
41	_	_	_	0.87V	1.13V

SPECIFICATION

Stereo Power Output 8 ohms 4x350W 4x650W 4 ohms 4x595W 4x1100W 2 ohms 4x1012W 4x1870W Bridged Mono Output 16 ohms 2x700W 2x1300W 8 ohms 2x1190W 2x2200W 4 ohms 2x203W 2x3740W Input Sensitivity & Impedance Sensitivity & Impedance Selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Silow Rate >550V / us 250V / us Crosstalk <90dB	<th>Model Name</th> <th>DP-4035</th> <th>DP-4065</th>	Model Name	DP-4035	DP-4065
4 ohms 4x595W 4x1100W 2 ohms 4x1012W 4x1870W Bridged Mono Output 1 16 ohms 2x700W 2x1300W 8 ohms 2x1190W 2x220W 4 ohms 2x2023W 2x3740W Input Sensitivity & impedance Selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB	Stereo Power Output			
2 ohms 4x1012W 4x1870W Bridged Mono Output 16 ohms 2x700W 2x1300W 8 ohms 2x1190W 2x2200W 4 ohms 2x2023W 2x3740W Input Sensitivity & impedance Sensitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk < 90dB	8 ohms	4x350W	4x650W	
Bridged Mono Output 16 ohms 2x700W 2x1300W 8 ohms 2x1190W 2x2200W 4 ohms 2x2023W 2x3740W Input Sensitivity & impedance selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Vottage Gain 35dB 38dB Slow Rate >50V / us >50V / us Crosstalk <90dB <90dB S/N >103dB <90dB S/N >103dB >105dB Distortion (1W) <0.05% <0.02% Frequency Response **** **1-fdB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz *1-fdB @ 8 ohms 20Hz - 20KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors SPEAKON Jacks SPEAKON Jacks Signal Input Female XLR Jacks PEMALE ALR Jacks Power Output	4 ohms	4x595W	4x1100W	
16 ohms 2x700W 2x1300W 8 ohms 2x1190W 2x2200W 4 ohms 2x2023W 2x3740W Input Sensitivity & impedance selectable 35/32/29/26dB selectable 38/35/32/29dB Sansitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB	2 ohms	4x1012W	4x1870W	
8 ohms 2x1190W 2x2200W 4 ohms 2x2023W 2x3740W Input Sensitivity & impedance Sensitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB	Bridged Mono Output			
4 ohms 2x2023W 2x3740W Input Sensitivity & impedance Sensitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4,3Vrms) 15dBu(4,3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <90dB	16 ohms	2x700W	2x1300W	
Input Sensitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >103dB >105dB Distortion (1W) <0.05% <0.02% Frequency Response *** *** */-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz */-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors SPEAKON Jacks SPEAKON Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls ** ** Front panel AC Switch, 4xCH gain knobs ** Rear panel Gain Switch; Mode Switch; Limiter Switch ** Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Over-current protect, Over	8 ohms	2x1190W	2x2200W	
Sensitivity selectable 35/32/29/26dB selectable 38/35/32/29dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB	4 ohms	2x2023W	2x3740W	
Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >103dB >105dB Distortion (1W) <0.05% <0.02% Frequency Response **-14dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz */-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls **Front panel AC Switch, 4xCH gain knobs **Rear panel Gain Switch; Mode Switch; Limiter Switch* Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60 Hz Dimensions <td< th=""><td>Input Sensitivity & impedance</td><td></td><td></td></td<>	Input Sensitivity & impedance			
Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB	Sensitivity	selectable 35/32/29/26dB	selectable 38/35/32/29dB	
Voltage Gain 35dB 38dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >103dB >105dB Distortion (1W) <0.05% <0.02% Frequency Response *** *** +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz +/-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors SPEAKON Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls *** SPEAKON Jacks SPEAKON Jacks Front panel AC Switch, 4xCH gain knobs ** Rear panel Gain Switch; Mode Switch; Limiter Switch* ** Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault ** Cooling Variable Speed Fan ** AC Power 90-260 VAC~50/60Hz **	Balanced XLR input	20Kohms	20Kohms	
Slew Rate >50V / us >50V / us Crosstalk <-90dB	Maximum Input Level	15dBu(4.3Vrms)	15dBu(4.3Vrms)	
Crosstalk <-90dB <-90dB S/N >103dB >105dB Distortion (1W) <0.05% <0.02% Frequency Response */-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz +/-1dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls *** *** Front panel AC Switch, 4xCH gain knobs *** Rear panel Gain Switch; Mode Switch; Limiter Switch ** Protections Thermal protect, Over-current protect, Output DC protect, Output short protect ** Indictors Power, Mode, Temperature, Signal, Peak, Fault ** Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Voltage Gain	35dB	38dB	
S/N >103dB >105dB Distortion (1W) <0.05%	Slew Rate	>50V / us	>50V / us	
Distortion (1W) <0.05% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz +/-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors S Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls SPEAKON Jacks SPEAKON Jacks Front panel AC Switch, 4xCH gain knobs Sear panel Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Crosstalk	<-90dB	<-90dB	
### #################################	S/N	>103dB	>105dB	
+/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 30KHz +/-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Distortion (1W)	<0.05%	<0.02%	
+/-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz Damping Factor >5000 >5000 Topology Class D Class D Connectors Connectors Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm Carton Box Weight (Net) 8.0kg	Frequency Response			
Damping Factor>5000>5000TopologyClass DClass DConnectorsSignal InputFemale XLR JacksFemale XLR JacksPower OutputSPEAKON JacksSPEAKON JacksControlsFront panelAC Switch, 4xCH gain knobsRear panelGain Switch; Mode Switch; Limiter SwitchProtectionsThermal protect, Over-current protect, Output DC protect, Output short protectIndictorsPower, Mode, Temperature, Signal, Peak, FaultCoolingVariable Speed FanAC Power90-260 VAC~50/60HzDimensions45x485x370mm45x485x370mmCarton BoxWeight (Net)8.0kg9.1kg	+/-1dB @ 8 ohms	20Hz - 20KHz	20Hz - 20KHz	
Topology Class D Class D Connectors Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	+/-3dB @ 8 ohms	20Hz - 30KHz	20Hz - 30KHz	
Connectors Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Damping Factor	>5000	>5000	
Signal Input Female XLR Jacks Female XLR Jacks Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Topology	Class D	Class D	
Power Output SPEAKON Jacks SPEAKON Jacks Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Connectors			
Controls Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Signal Input	Female XLR Jacks	Female XLR Jacks	
Front panel AC Switch, 4xCH gain knobs Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Power Output	SPEAKON Jacks	SPEAKON Jacks	
Rear panel Gain Switch; Mode Switch; Limiter Switch Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Controls			
Protections Thermal protect, Over-current protect, Output DC protect, Output short protect Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Front panel	AC Switch, 4xCH gain knobs		
Indictors Power, Mode, Temperature, Signal, Peak, Fault Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Rear panel	Gain Switch; Mode Switch; Limiter Swi	tch	
Cooling Variable Speed Fan AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Protections	Thermal protect, Over-current protect,	Output DC protect, Output short protect	
AC Power 90-260 VAC~50/60Hz Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Indictors	Power, Mode, Temperature, Signal, Pe	ak, Fault	
Dimensions 45x485x370mm 45x485x370mm Carton Box Weight (Net) 8.0kg 9.1kg	Cooling	Variable Speed Fan		
Carton Box Weight (Net) 8.0kg 9.1kg	AC Power	90-260 VAC~50/60Hz		
Weight (Net) 8.0kg 9.1kg	Dimensions	45x485x370mm	45x485x370mm	
	Carton Box			
Weight (Gross) 9.5kg 10.6kg	Weight (Net)	8.0kg	9.1kg	
	Weight (Gross)	9.5kg	10.6kg	

SPECIFICATION

Stereo Power Output 8 ohms 4x1000W 4x1200W 4 ohms 4x1700W 4x2040W 2 ohms 4x2890W 4x3468W Bridged Mono Output 16 ohms 2x2000W 2x2400W 8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response */-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 30KHz */-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz 20Hz - 30KHz
4 ohms 4x1700W 4x2040W 2 ohms 4x2890W 4x3468W Bridged Mono Output 16 ohms 2x2000W 2x2400W 8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
2 ohms 4x2890W 4x3468W Bridged Mono Output 3 x 2000W 4 x 2400W 8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB
Bridged Mono Output 16 ohms 2x2000W 2x2400W 8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
16 ohms 2x2000W 2x2400W 8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us Crosstalk <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
8 ohms 2x3400W 2x4080W 4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz
4 ohms 2x5780W 2x6936W Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB
Input Sensitivity & impedance Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Sensitivity selectable 38/35/32/29dB selectable 41/38/35/32dB Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB
Balanced XLR input 20Kohms 20Kohms Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Maximum Input Level 15dBu(4.3Vrms) 15dBu(4.3Vrms) Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Voltage Gain 38dB 41dB Slew Rate >50V / us >50V / us Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Slew Rate >50V / us Crosstalk <-90dB S/N >107dB Distortion (1W) <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Crosstalk <-90dB <-90dB S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
S/N >107dB >108dB Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Distortion (1W) <0.02% <0.02% Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
Frequency Response +/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
+/-1dB @ 8 ohms 20Hz - 20KHz 20Hz - 20KHz
-
+/-3dB @ 8 ohms 20Hz - 30KHz 20Hz - 30KHz
Damping Factor >5000 >5000
Topology Class D Class D
Connectors
Signal Input Female XLR Jacks Female XLR Jacks
Power Output SPEAKON Jacks SPEAKON Jacks
Controls
Front panel AC Switch, 4xCH gain knobs
Rear panel Gain Switch; Mode Switch; Limiter Switch
Protections Thermal protect, Over-current protect, Output DC protect, Output short protect
Indictors Power, Mode, Temperature, Signal, Peak, Fault
Cooling Variable Speed Fan
AC Power 90-260 VAC~50/60Hz
Dimensions 45x485x370mm 45x485x465mm
Carton Box
Weight (Net) 9.1kg 12.2kg
Weight (Gross) 10.6kg 14.8kg

SPECIFICATION

Model Name	DP-2200			
Stereo Power Output				
8 ohms	2x2000W			
4 ohms	2x3400W			
2 ohms	2x4760W			
Bridged Output				
16 ohms	1x4000W			
8 ohms	1x6800W			
4 ohms	1x9520W			
Input Sensitivity & impedance				
Sensitivity	selectable 41/38/35/32dB			
Balanced XLR input	20Kohms			
Maximum Input Level	15dBu(4.3Vrms)			
Voltage Gain	41dB			
Slew Rate	>50V / us			
Crosstalk	<-90dB			
S/N	>109dB			
Distortion (1W)	<0.02%			
Frequency Response				
+/-1dB @ 8 ohms	20Hz - 20KHz			
+/-3dB @ 8 ohms	20Hz - 30KHz			
Damping Factor	>5000			
Topology	Class D			
Connectors				
Signal Input and Output	Female and Male XLR Jacks			
Power Output	SPEAKON Jacks			
Controls				
Front panel	AC Switch, Gain Knobs			
Rear panel	Gain Switch; Mode Switch; Limiter Switch			
Protections	Thermal protect, Over-current protect, Output DC protect, Output short protect			
Indictors	Power, Mode, Temperature, Signal, Peak, Fault			
Cooling	Variable Speed Fan			
AC Power	90-260 VAC~50/60Hz			
Dimensions	45x485x370mm			
Carton Box				
Weight (Net)	9.3kg			
Weight (Gross)	10.8kg			

WHARFEDALE PRO LIMITED WARRANTY

Wharfedale Pro products are warranted of manufacturing or material defects for a period of one year from the original date of purchase. In the event of malfunction, contact your authorized Wharfedale Pro dealer or distributor for information.

*Be aware that warranty details may differ from country to country. Contact your dealer or distributor for information. These terms do not infringe your statutory rights.



Wharfedale Professional IAG House 13/14 Glebe Road Huntingdon Cambridgeshire PE29 7DL UK www.wharfedalepro.com

Wharfedale Professional reserves the right to alter or improve specifications without notice. All rights reserved © 2020 Wharfedale Pro. Wharfedale Pro is a member of the IAG Group.