Ottocanali 1204 DSP Series

8-Channel power amplifier platform
For Hi-Z and Low-Z Application

Specifications

Channel Handling		
Number of output channels	8 Hi-Z or Lo-Z (bridgeable per ch. pair)*	1x 8 Pin Phoenix DFK-PC 4/8-G-7.62
Number of input channels		
Analog	8 Main Line	12 Pin Phoenix MC 1.5/12-ST-3.81
	8 AUX	12 Pin Phoenix MC 1.5/12-ST-3.81

Audio	
Gain	32 dB (@lo-Z) | 41 dB (@70V hi-Z) | 44 dB (@100V hi-Z)
Input sensitivity @ 8 Ω	20 Hz - 20 kHz (1 W @ 8 Ω, +/-0.5 dB, or 32/65 W @ 70/100 V, +/-2.5 dB)
Max input level	0.63 V / -1.79 dBu
Frequency Response (±0.5 dB , 1 W @ 8 Ω)	20 Hz - 20 kHz @ lo-Z 57 Hz - 16 Hz @ 70V hi-Z 57 Hz - 15.5 Hz @ 100V hi-Z
Crosstalk (1 kHz)	>61 dB @ lo-Z >61 dB @ 70V hi-Z >61 dB @ 100V hi-Z
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)	>92 dBA @ lo-Z >92 dBA @ 70V hi-Z >92 dBA @ 100V hi-Z
Input impedance	10 kΩ Balanced
THD+N (from 0.1 W to Full Power)	typical < 0.05%
DIM (from 0.1 W to Full Power)	< 0.8%
Slew Rate (input filter bypassed @ 8 Ω)	12 V/µs
Damping Factor @ 8 Ω, 20 Hz - 200 Hz	> 500 (lo-Z)

AC Mains Power				
Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)			
Nominal voltage (±10%)	100-240 V @ 50-60Hz			
Power factor (> 500 W ouput)	> 0.8			
Consumption/current draw	@ 115 V		@ 230 V	
Idle (Energy Save On)	13.9 W	0.26 A	14.6 W	0.34 A
Idle (Energy Save Off)	20 W	0.33 A	21.2 W	0.36 A
1/8 Max Output Power @ 4 Ω	224 W	1.99 A	223 W	1.24 A
1/4 Max Output Power @ 4 Ω	423 W	3.70 A	417 W	2.00 A
AC Mains connector	IEC C13 inlet (16 A max) region-specific power cord provided			

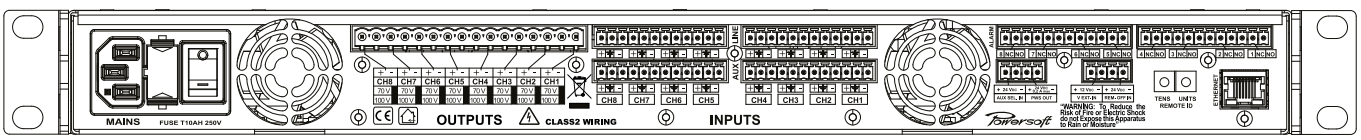
Construction	
Dimensions	483 x 44.45 x 360 mm 19.0 x 1.75 x 14.2 in
Weight	5-11 Kg (11-24.3 lb) depending on the number of installed BatFormers®

Output Stage	
Maximum output power per channel @ 8 Ω	80 W
Maximum output power per channel @ 4 Ω	150 W
Maximum output power @ 16 Ω Bridged (Channel Pair)	150 W
Maximum output power @ 8 Ω Bridged (Channel Pair)	300 W
Maximum output power @ Hi-Z distributed line 100 V*	130 W
Maximum output power @ Hi-Z distributed line 70 V*	125 W
Maximum unclipped output voltage @ 8 Ω	37 V_{peak}
Maximum unclipped output voltage @ 70 V	77 V_{peak}
Maximum unclipped output voltage @ 100 V	151 V_{peak}
Maximum unclipped output voltage @ Mono-Bridged	76 V_{peak}
Maximum output current @ 8 Ω	15 A_{peak}
Maximum output current @ 70 V	4.8 A_{peak}
Maximum output current @ 100 V	3.4 A_{peak}
Maximum output current @ Mono-Bridged	15 A_{peak}

The power figure is calculated by driving and loading symmetrically all the channels: uneven loads allow to achieve higher performances.

DSP	
AD converters	24bit/48kHz 100dB SNR, THD < 0.02% (20 Hz - 20 kHz)
DA converters	24bit/48kHz 102dB SNR, THD < 0.02% (20 Hz - 20 kHz)
Delay	up to 16 ms per output
Equalizer	5 (input) / 8 (output) filters max (filter types: parametric, hi/lo shelving, hi/lo pass, band pass, band stop, all pass)
Crossover	Butterworth, Linkwitz-Riley, Bessel, 6-48 dB/oct
Limiters	Peak, RMS

Thermal				
Operating temperature	0° - 35° C / 32° - 95° F			
Cooling	Fan, variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V		@ 230 V	
Idle (Energy Save On)	29.66 BTU/h	7.48 kcal/h	31.71 BTU/h	8.00 kcal/h
Idle (Energy Save Off)	50.12 BTU/h	12.64 kcal/h	53.20 BTU/h	13.42 kcal/h
1/8 Max Output Power @ 4 Ω	252.34 BTU/h	63.64 kcal/h	248.93 BTU/h	62.78 kcal/h
1/4 Max Output Power @ 4 Ω	419.41 BTU/h	105.78 kcal/h	398.97 BTU/h	100.62 kcal/h



*With BatFormer® inserted per channel.

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