

AT4804-A

4-CHANNEL FIXED INSTALLATION AMPLIFIER PLATFORM WITH DSP AND AES67

Code Powersoft: QUATTROCANALI 4804 DSP+



GENERAL

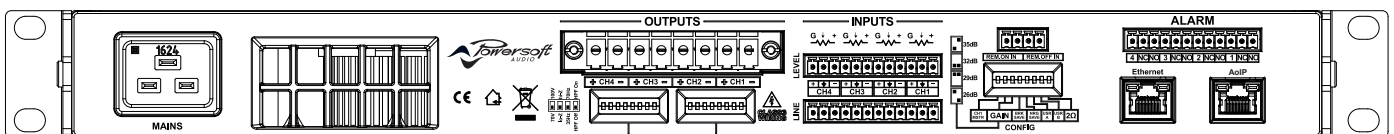
Output power per Channel	1500 W @ 2 Ω	1200 W @ 4 Ω	1200 W @ 8 Ω
Bridge mode		3000 W @ 4 Ω	2400 W @ 8 Ω
Max output voltage / current			
Max unclipped voltage @8	139 Vpeak		
Current	45 Apeak		

AC MAIN POWER

Power supply	Universal, regulated switch mode with PFC (Power Factor Correction)		
Nominal power requirement			100-240 V ± 10%, 50-60 Hz
Operating voltage			90 V – 264 V
Power consumption/current draw			
Idle	115 V: 31.3 W – 0.47 A		230 V: 31.6 W – 0.27 A
1/8 of max output power @ 4 Ω	115 V: 823 W – 7.7 A		230 V: 840 W – 4.3 A

THERMAL

Operating temperature range	0° – 45° C – 32° – 113° F		
Thermal dissipation			
Idle	115 V: 107 BTU/h		230 V: 108 BTU/h
1/8 of max output power @ 4 Ω	115 V: 760 BTU/h		230 V: 818 BTU/h



Channel Handling	
Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair) Phoenix PC 5/8-SIF1-7,62
Number of input channels	
Analog	4 Phoenix MC 1,5/12-ST-3,81
AES67	4 1 x RJ45
Audio	
Input sensitivity @ 8 Ω with 26 dB Gain	4.91
Input sensitivity @ 8 Ω with 29 dB Gain	3.48
Input sensitivity @ 8 Ω with 32 dB Gain	2.46
Input sensitivity @ 8 Ω with 35 dB Gain	1.74
SNR (20 Hz - 20 kHz @ 8 Ω - typical)	110
Max input level	20 dBu
Frequency Response	20 Hz - 20 kHz ±1.0 dB, 1 W @ 8 Ω
Crosstalk (1 kHz)	typical -70 dB
Input impedance	20 kΩ balanced
THD+N (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
SMPTE IMD (from 0.1 W to Half Power)	< 0.1% (typical < 0.05%)
Slew Rate	> 50 V/μs @ 8 Ω, input filter bypassed
Output impedance at 100 Hz	26 mΩ
DSP	
AD converters	24 Bit Tandem™ @ 48 kHz typical 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	4 Bit Tandem™ @ 48 kHz typical 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 44.1 kHz to 96 kHz typical 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets speaker presets	49 amplifier snapshots, virtually unlimited
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/ oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Output Stage	
per channel @ 8 Ω (symmetrical)*	1200
per channel @ 4 Ω (symmetrical)*	1200
per channel @ 2 Ω (symmetrical)*	1500
@ 4 Ω Bridged (symmetrical)*	3000
@ 8 Ω Bridged (symmetrical)*	2400
@ Hi-Z distributed line 100 V (symmetrical)*	1200
@ Hi-Z distributed line 70 V (symmetrical)*	1200
per channel @ 8 Ω (asymmetrical)**	1300
per channel @ 4 Ω (asymmetrical)**	2600
per channel @ 2 Ω (asymmetrical)**	1800
@ Hi-Z distributed line 100 V (asymmetrical)**	2200
@ Hi-Z distributed line 70 V (asymmetrical)**	2100
Maximum unclipped output voltage @ 8 Ω	139 Vpeak
Maximum output current	45 Apeak
* : All channels driven with the same burst power ** : Maximum power-sharing capacity per channel	
Power	
Nominal voltage (±10%)	100-240 VAC @ 50-60Hz
Operating Voltage	90-264 VAC
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided
Typical use case power consumption is expected to be at least 20% lower (likely more than 50% lower)	
Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	ArmoniaPlus™
Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	7 Kg (15 lb)
CERTIFICATIONS - A&E SPECIFICATIONS - USER GUIDES - SOFTWARE	
Powersoft site	www.powersoft.com