

Quattrocanali Series

4-Channel Fixed Installation Amplifier Platform



- TOURING
- INSTALLATION



ArmoniaPlus
System Manager

The Quattrocanali Series is specifically designed for installation applications. In just 1 RU, Quattrocanali offers smaller dimensions, lighter weight and the traditionally amazing sound quality and reliability of all Powersoft products.

Quattrocanali Series amplifiers implement a high efficiency microprocessor controlled power supply with built in PFC (Power Factor Correction) that allows flawless worldwide operation with any AC mains voltage in the range 85-275 VAC tolerant to peak up to 400 V. The patented SRM (Smart Rails Management) technology allows to maximize the efficiency of the system

and drastically reduce power consumption at any load and usage condition.

A secondary high efficient power supply is present to keep the system responsive at any operating condition, so that system check and monitoring can be performed even in stand-by and deep-sleep modes.

Quattrocanali Series is designed to work with lo-Z (from 2 Ω) and with 70V/100V distributed lines: any mixed configuration of low and high impedance output loads can be realized.

Standard versions of the Quattrocanali Series offer remote control via ArmoniaPlus over

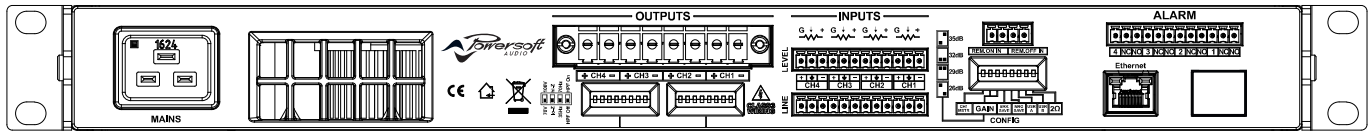
Master and Channel volume, making it the perfect tool for renovating already existing systems, as well as all other applications where DSP functions may be expandable.

- ▶ Small to medium-scale venues
- ▶ Main systems, central or distributed, subwoofers, hi-Z/lo-Z
- ▶ Mission critical applications
- ▶ Shops, stores
- ▶ Theatres, restaurant, and bars
- ▶ Houses of worship
- ▶ Convention centres
- ▶ Business centres
- ▶ Cruise ships



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Specifications

Channel Handling

Number of output channels	4 Hi-Z or Lo-Z (bridgeable per ch. pair)	Phoenix PC 5/8-STF1-7,62
Number of input channels		
Analog	4	Phoenix MC 1,5/12-ST-3,81

Audio

	Gain	1204	2404	4804	
Input sensitivity @ 8 Ω	26 dB	2.48	3.54	4.91	Vrms
Input sensitivity @ 8 Ω	29 dB	1.76	2.51	3.48	Vrms
Input sensitivity @ 8 Ω	32 dB	1.24	1.78	2.46	Vrms
Input sensitivity @ 8 Ω	35 dB	0.88	1.26	1.74	Vrms
S/N (20 Hz - 20 kHz @ 8 Ω)		>104	>108	>110	dB(A)

Max input level	20 dBu
Frequency Response	20 Hz - 20 kHz ±0.5 dB, 1 W @ 8 Ω
Crosstalk (1 kHz)	typical -70 dB
Input impedance	20 kΩ balanced
THD+N (from 0.1 W to Full Power)	< 0.1% (typical < 0.05%)
DIM (from 0.1 W to Full Power)	< 0.05%
Slew Rate	> 50 V/μs @ 8 Ω, input filter bypassed
Damping Factor	> 1000 @ 8 Ω, 20 Hz - 100 Hz

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	6.8 Kg (15 lb)

Output Stage

	1204	2404	4804
Maximum output power per channel @ 8 Ω	300 W	600 W	1200 W
Maximum output power per channel @ 4 Ω	300 W	600 W	1200 W
Maximum output power per channel @ 2 Ω	400 W	800 W	1500 W
Maximum output power @ 4 Ω Bridged	800 W	1600 W	3000 W
Maximum output power @ 8 Ω Bridged	600 W	1200 W	2400 W
Maximum output power @ Hi-Z distributed line 100 V	300 W	600 W	1200 W
Maximum output power @ Hi-Z distributed line 70 V	300 W	600 W	1200 W
Maximum unclipped output voltage @ 8 Ω	70 V _{peak}	100 V _{peak}	139 V _{peak}
Maximum output current	33 A _{peak}	45 A _{peak}	45 A _{peak}

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

Power & Thermal

		1204	2404	4804		
@ 115 V	Idle	Power	31.0	31.0	31.0	W
		Current Draw	0.45	0.45	0.47	A _{rms}
		Thermal Loss	107	107	106	BTU/h
	1/8 Power @ 4 Ω	Power	227	406	823	W
		Current Draw	2.1	3.7	7.7	A _{rms}
		Thermal Loss	262	361	759	BTU/h
@ 230 V	Idle	Power	31.8	31.8	32.0	W
		Current Draw	0.26	0.26	0.28	A _{rms}
		Thermal Loss	109	109	107	BTU/h
	1/8 Power @ 4 Ω	Power	251	406	840	W
		Current Draw	1.4	2.1	4.3	A _{rms}
		Thermal Loss	345	361	817	BTU/h
Power supply		Universal regulated switch mode with PFC, SRM				
Nominal voltage (±10%)		100-240 V @ 50-60Hz				
Operating Voltage		60-264 V (with reduced power below 90 V)				
AC Mains connector		IEC C20 inlet (20 A max) region-specific power cord provided				

