Duecanali 1604

2-Channel High-Performance Amplifier Platform

☐ Touring
☑ Installation

2 lo-Z hi-Z channels

SRM

PFC

Armonía Pro Audio Suite™

Excellent sound quality and ample output power result from Powersoft's unique approach to Class D amplification, making the Duecanali Series ideal for the main system in any venue where performance is priority.

Providing access to all relevant amplifier parameter yet easily set up, the Duecanali Series is versatile in use, providing status feedback via its front panel LED display or a connected PC running Armonía Pro Audio Suite™ software.

Powersoft's legendary efficiency saves valuable energy, keeping both operational cost and 'carbon footprint' at a minimum: the Duecanali 1604 Series shines with outstandingly low power consumption and heat dissipation, with direct positive effects on investment – not to mention the benefits for the environment and a more eco-friendly planet.

The Duecanali 1604 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, making the Duecanali 1604 suitable for all application in installed sound reinforcement systems.

The full protection circuitry covers the investment from the most common unwanted conditions, such as: over/under voltage, clipped signals, VHF emissions, and short circuits.

- Small to Medium-scale venues
- Main systems, central or distributed, subwoofers, hi-Z/lo-Z
- Emergency systems (IEC 60849)
- Stadiums, arenas
- Theaters, concert halls
- Houses of worship
- Convention centers
- Amusement parks, themed entertainment
- Cruise ships

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Specifications

Channel Handling		
Number of output channels	2 Hi-Z or Lo-Z (bridgeable per ch. pair)	Phoenix PC 5/8-STF1-7,62
Number of input channels		
Analog	2	Phoenix MC 1,5/12-ST-3,81

AC Mains Power				
Power supply	Universal input, regulated output, PFC, overvoltage tolerant, SRM			
Nominal voltage (±10%)	100-240 V @ 50-60Hz			
Power factor (> 500 W ouput)	> 0.95			
Consumption/current draw	@ 115 V		@ 230 V	
Idle	23.1 W	0.40 A	24 W	0.28 A
1/8 Max Output Power @ 4 Ω	258.4 W	2.7 A	285.3 W	1.78 A
1/4 Max Output Power @ 4 Ω	554.4 W	5.24 A	549.2 W	2.84 A
AC Mains connector	IEC C20 inlet (20 A max) region-specific power cord provided			

Audio				
Gain	26 dB	29 dB	32 dB	35 dB
Input sensitivity @ 8 Ω	4.0 V	2.84 V	2.0 V	1.42 V
Max input level	20 dBu			
Frequency Response (±0.5 dB , 1 W @ 8 Ω)	20 Hz - 20 kHz			
Crosstalk (1 kHz)	typical -70 dB			
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)	> 109 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 (input filter bypassed @ 8 Ω)	> 50 V/µs			
Damping Factor @ 8 Ω, 20 Hz - 100 Hz	> 500			

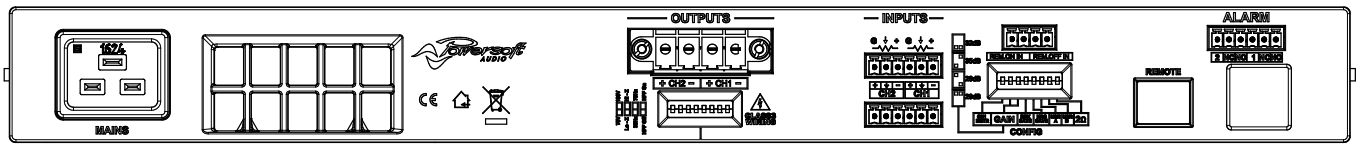
Output Stage	
Maximum output power per channel @ 8 Ω	800 W
Maximum output power per channel @ 4 Ω	800 W
Maximum output power per channel @ 2 Ω	1000 W
Maximum output power @ 4 Ω Bridged	2000 W
Maximum output power @ 8 Ω Bridged	1600 W
Maximum output power @ Hi-Z distributed line 100 V	800 W
Maximum output power @ Hi-Z distributed line 70 V	800 W
Maximum unclipped output voltage @ 8 Ω	115 V_{peak}
Maximum output current	45 A_{peak}

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

Thermal				
Cooling	Low noise fan, continuously variable speed, temperature controlled, front to rear airflow			
Thermal dissipation	@ 115 V		@ 230 V	
Idle	78.9 BTU/h	19.9 kcal/h	81.9 BTU/h	20.6 kcal/h
1/8 Max Output Power @ 4 Ω	291.6 BTU/h	73.5 kcal/h	291.2 BTU/h	73.4 kcal/h
1/4 Max Output Power @ 4 Ω	527.1 BTU/h	132.9 kcal/h	509.4 BTU/h	128.4 kcal/h

Networking	
Standards compliance	auto-sensing Fast Ethernet (IEEE 802.3u, 100 Mbit/s)
Supported topologies	Star
Remote interface	Armonía Pro Audio Suite™

Construction	
Dimensions	483 x 44.5 x 358 mm 19.0 x 1.75 x 14.1 in
Weight	7 Kg (15.4 lb)



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