

# Pulse Series



## Power Ratings

<b>Pulse 4x300</b>	
Into 8 Ohms	170W
Into 4 Ohms	300W
Into 2 Ohms	330W
<b>Pulse 2x650</b>	
Into 8 Ohms	400W
Into 4 Ohms	650W
Into 2 Ohms	850W
<b>Pulse 2x1100</b>	
Into 8 Ohms	700W
Into 4 Ohms	1100W
Into 2 Ohms	1500W

## Benefits of the Pulse Series

- Very light weight
- Switched mode power supplies give solid performance at all power levels
- Microprocessor protection system
- Massive heatsinks for cooler operation and higher reliability
- Binding Post or Speakon output connector options
- Optional Remote control via C Audio CONNECT
- Internal crossover card options

## Cooler, Lighter, Stronger

The Pulse Series combines state-of-the-art switched mode power supplies to not only reduce amplifier weight by as much as 70% compared to conventional amps, but also to provide solid, consistent performance at all power levels.

Occupying just 2U of rack space, Pulse uses massive heatsinks and front-venting fans to keep the electronics really cool, plus a built-in microprocessor which continually monitors all the protection aspects of Pulse - these factors all dramatically enhance reliability.

Pulse amplifiers will perform for longer periods than conventional amplifiers at high output levels.

The combination of the switched mode PSU and a rugged steel chassis means inherent strength.



## Technical Specifications

### Power Ratings

	Pulse 4x300	Pulse 2x650	Pulse 2x1100
<small>Measured per channel, both channels driven at 1kHz to no more than 0.1% THD+N</small>			
8 Ohms	170Wrms	400Wrms	700Wrms
4 Ohms	300Wrms	650Wrms	1100Wrms
2 Ohms	330Wrms*	850Wrms*	1500Wrms*

\* Note: 2 Ohm spec is at 1% THD

### Bridged Mono

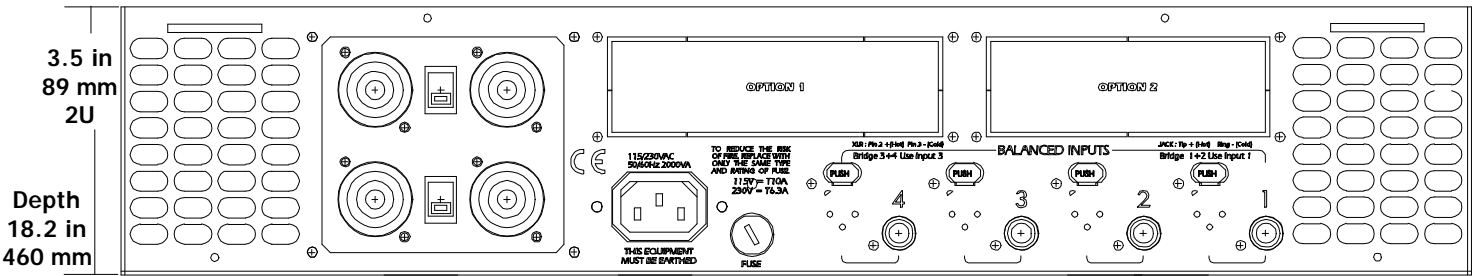
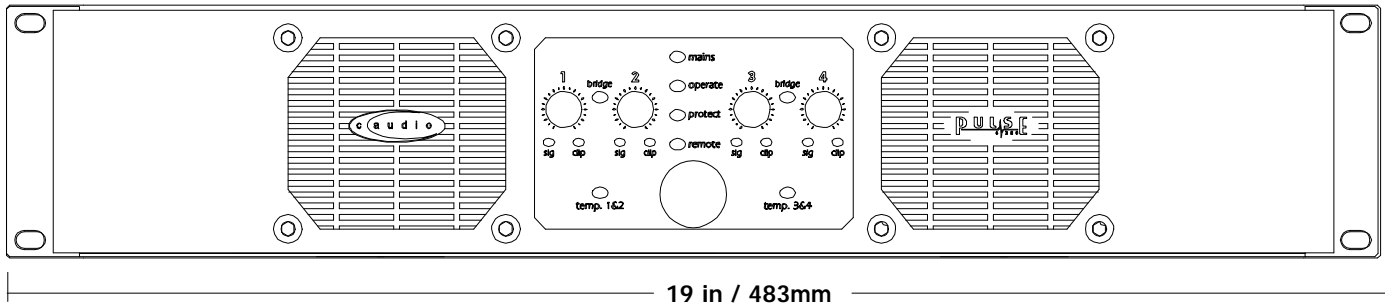
16 Ohms	400Wrms	800Wrms	1200Wrms
8 Ohms	600Wrms	1300Wrms	2200Wrms
4 Ohms	660Wrms*	1700Wrms*	3000Wrms*

\* Note: 4 Ohm bridged spec is at 1% THD

<b>Input Sensitivity</b>	+1dBu for full output
<b>Input Impedance</b>	20kOhm
<b>Distortion</b>	<0.006% THD, 1kHz, 1dB below clip, 22kHz measurement bandwidth
<b>Frequency Resp.</b>	20Hz to 20kHz, +0/-0.2dB; <2Hz to >120kHz +0/-3dB
<b>Controls</b>	Power switch, bridge mode switching, indented level controls (these may be made tamper-proof)
<b>Indicators</b>	Mains present, Operate, Signal, Bridge, Clip, Overtemperature, Protect, Remote
<b>Protection</b>	Microprocessor supervised: overtemperature, DC on outputs, output stage overload, inrush current surge, mains fail and brownout.
<b>Noise</b>	<-100dB ref full output 20Hz - 20kHz measurement bandwidth
<b>Slew Rate</b>	>50 V/microsecond
<b>Damping Factor</b>	>200 ref 8 Ohm
<b>Output Connectors</b>	4x300 - Binding post or Speakon 2x650, 2x1100 - Binding post and Speakon
<b>Power</b>	115 or 230 volts AC nominal, internally selectable, 2000VA, all channels driven (4x300, 2x650); 3000VA (2x1100)
<b>Dimensions</b>	3.5" (89mm) x 18.2" (460mm) x 19" (483mm) - with rear rack ears depth 19.5", -21", 20" (494, 511, 530mm)
<b>Weight</b>	24lbs (11kg)

Trade Descriptions Act: C Audio have a policy of continued product improvement and accordingly reserve the right to change features and specifications without prior notice.

# Architect's and Engineers Specifications



## Options and Remote Control

Pulse options include:

- Front and rear rack support brackets
- Input transformers
- Analogue Crossover card
  - 2-way and 3-way crossovers
- Fan filters
- CONNECT Remote Control

The **CONNECT** System by C Audio allows remote control and monitoring of input signal, output voltage and current, temperature, and protect status, and may address over 100 Pulse amplifiers.

The amplifier shall be light-weight, fit into 2 rack spaces and have two (four) channels, each capable of producing an output of 650/1100 (300) Watts into a 4 Ohm load with both (all) channels driven. Each input shall be electronically balanced and have effective filtration against RF and DC. Full rated output with a 4 Ohm load shall be achieved by an input signal not exceeding +1dBu per channel.

Each channel shall have a +0/-0.2dB frequency response from 20Hz to 20kHz at full rated power into a nominal 4 Ohm and shall exhibit harmonic distortion not exceeding 0.006% at 1kHz. Hum and noise shall be at least 100dB below full rated output when measured over a 20Hz to 20kHz bandwidth with 50 Ohm input termination. Channel separation shall be in excess of 60dB at 1kHz.

The amplifier shall be stable into any load configuration with any combination of open or grounded input connection, and shall protect itself and its loudspeaker loads against mismatched, short or open circuit loads, or any failure which might otherwise cause a DC offset voltage to appear at its output.

Relay-less muting circuits shall operate during power-up and power-down and a microprocessor controlled thermal sensing system shall be incorporated to independently protect the amplifiers and their power supplies against over-temperature operation.

Two variable speed cooling fans shall be incorporated, venting warm air out of the front panel.

The amplifier shall carry signal present indicators and an output signal clip indicator which accurately indicates clipping irrespective of output

loading or mains supply voltage. LEDs shall also be provided to indicate the status of AC power and the amplifier's own protection systems.

Audio input shall be via mirrored XLR connectors and outputs via tamper proof binding posts or Speakon type connectors, with switchable bridging for pairs of outputs.

The amplifier shall offer the following options: internal analogue crossover facilities, input transformers, fan filters, additional rack mounting hardware, and remote control facilities over a low cost network which can address more than 100 individual amplifiers.

The amplifier shall be a **C Audio Pulse 2x650/2x1000 (4x300)**.



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