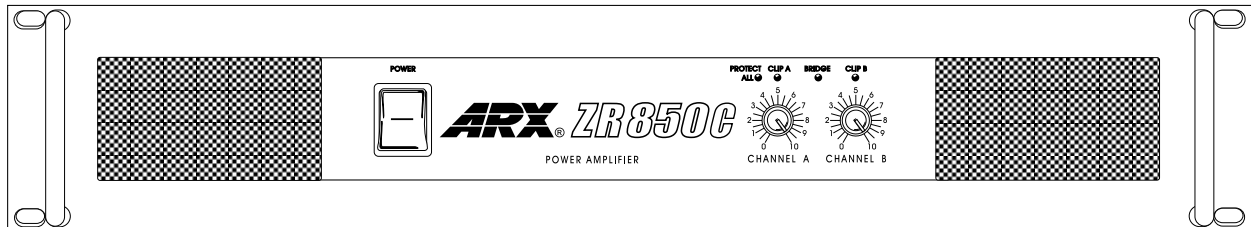


ZR350c  
ZR550c  
ZR850c



DUAL CHANNEL CONSTANT VOLTAGE POWER AMPLIFIERS



### C is for Contractor

The ZR 350, 550 and 850C series (the C denotes Contractor) are a range of 100v line amplifiers designed from the ground up for the intensive duty cycle that today's installations demand. More power, more protection; less heat, less weight, and most of all - better sound.

Computer modelling and the use of compact, efficient toroidal transformers give the ZR350, 550 and 850C excellent power-to-weight ratios, plus specifications designed to satisfy the most demanding professional applications. They are a distillation of our experience gained through years of making compact, powerful amplifiers.

### New Technology Inside

The ZR-C series use the new generation Lateral Mosfet devices for the all-important amplifier output stage. These provide ultra fast high current-to-load capability, switching many amperes of high frequency current in nanoseconds, up to 100 times faster than amplifiers using conventional Bipolar transistors.

'Headroom Enhance' circuitry based on the core ISC error correction technology developed for our new range of ISC Loudspeaker Processors. This provides Maximum power output levels under all AC mains supply voltages and rated load conditions, eliminating Output Stage clipping.

### Comprehensive Protection circuitry onboard

All the ZR 'C' series amplifiers have new re-settable High Current relay switched protection circuits that instantly disconnect the speakers when a potentially damaging signal is detected.

New Input delay muting circuitry eliminates switch on/switch off noise.

### Toroidal Output Transformers

The ZR 'C' series amplifiers use 'over-specified' high quality toroidal output transformers, ensuring an extended high frequency response not possible with lower cost traditional EI laminated types.

### Proven Heat Exchange technology

Dual variable speed cooling fans circulate cooling air through ARX's proven 'UltraFin™' heatsink, ensuring that the Mosfet output devices are kept well within their thermal tolerance levels under all operating conditions.

### Safety First

In keeping with current safety practices, the outputs are all fully isolated Speakon connectors.

### Built to Last

Over 18 years ago, ARX was one of the first companies in the world to bring out a high powered amplifier (the legendary SS700) in only 2 rack spaces! A concept that has been embraced by virtually every amp manufacturer since then. Today, thousands of amplifiers later, we've probably had greater experience in getting more from less than just about anyone else!

ARX is dedicated to producing pro audio products that consistently deliver the power and the quality that audio professionals expect.

The ZR'C' series is proof of our commitment - a line of constant voltage installation amplifiers that work as hard as you do, day after day, night after night.

### Features

- Toroidal transformer based 'Extreme Duty' power supply
- Twin toroidal output transformers
- 'Headroom enhance' circuitry for maximum output
- LED status display of all amp functions
- Balanced XLR and jack Inputs; Speakon outputs
- Super efficient 'UltraFin' heatsink
- Extra heavy duty rear mounting ears
- Flawless performance in any installation

## Specifications

### Power Supply

Toroidal power transformer and Heavy duty diode bridge, to retain dynamic range under even the heaviest load conditions.

All models feature twin toroidal output transformers

### Input Impedance

20 Kohms Balanced

### Input Sensitivity

ZR350/550C .775 Vrms (0 dB)

ZR850C 1.15 Vrms (+3.5dB)

### Input CMRR

@ 1KHz >70dB

### Input Connectors

1 x TRS jack, 1 x Female XLR per channel. Pin 3-, Pin 2 +, Pin 1 Electronic Ground

### Outputs

Fully isolated 100v transformer outputs

### Output Power (RMS) per Channel

#### ZR350C

Both channels driven: 100 watts RMS into 100v line, primary transformer winding 8 ohms

#### ZR550C

Both channels driven: 200 watts RMS into 100v line, primary transformer winding 8 ohms

#### ZR850C

Both channels driven: 300 watts RMS into 100v line, primary transformer winding 8 ohms

### Distortion

THD @ 100Hz, 0.03%

THD @ 1KHz, 0.05%

### Slew Rate

35V $\mu$ S

### Protection Features

- Output switched thermal sensing
- Relay switched DC sensing
- Output mute at turn on and off
- Variable speed fan assisted cooling

### Output Connectors

Neutrik Speakon connectors wired 1+ and 1-

### Metering

LED status indicators for Clip and Protection

### Cooling

Front to back with 'UltraFin' heatsink and 2 x variable speed thermo controlled DC fans

### Construction

All steel chassis and front panel, with Lexan front print. Rear rack mount ears, front panel power switch and level controls

### AC Power

Supplied 'zone-specific': 100/120/220/240V AC

### Weight

ZR350C 13 Kg (27 lbs)

ZR550C 14.2 Kg (30 lbs)

ZR850C 19.4 Kg (42 lbs)

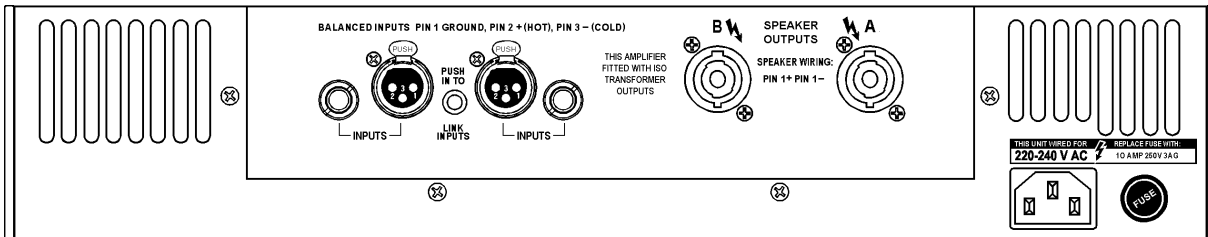
### Size

Standard 2 rack units high and 19" (482 mm) wide

### Depth

16" (405mm)

Add >3" (80 mm) to depth behind front panel to allow for rear rack mount ears Add >1" (32mm) to depth before front panel to allow for handles.



## Rear Panel

- XLR and Jack inputs
- Inputs link switch
- Speakon outputs.
- Removable power lead with IEC 3 pin connector



Our policy is one of continuous improvement, and therefore designs may change without notice. However, unless otherwise stated, specifications will always equal or exceed those previously given.



## Architectural Specifications

The amplifier shall be a 2 rack unit high dual channel unit 16" (405mm) deep. Each channel shall have an internally fitted toroidal output transformer capable of driving a 100v line output.

The amplifier shall be of all steel monocoque construction, with front and rear rack mounting points.

Input connectors shall be Balanced 3 pin XLR type, wired Pin 3-, Pin 2+, and Pin 1 Audio ground. Output connectors shall be Neutrik Speakons wired 1+ and 1-.

Input Impedance shall be 20 Kohms Balanced, with a CMRR of >70dB @ 1 KHz.

The rear panel shall have a switch to link inputs A and B, and there shall be an internal insert point for a Plug-in processor module card.

There shall be LED status indicators for Clip and Protection functions. Protection features shall consist of headroom enhancing soft limit circuitry, 2 x fans, relay switched DC sensing, and Input/Out-

put muting at turn on and turn off.

(ZR350C)

The Output power of channels A and B shall be 100 watts RMS into a 100v line. Primary winding on output transformer shall be 8 ohms.

The amplifier shall be the ARX ZR350C.

(ZR550C)

The Output power of channels A and B shall be 200 watts RMS into a 100v line. Primary winding on output transformer shall be 8 ohms.

The amplifier shall be the ARX ZR550C.

(ZR850C)

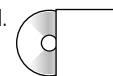
The Output power of channels A and B shall be 300 watts RMS into a 100v line. Primary winding on output transformer shall be 8 ohms.

The amplifier shall be the ARX ZR850C.

Specifications available on CD ROM.

Latest updates available at:

www.arx.com.au



ARX Systems Pty Ltd; PO Box 15, Moorabbin, Victoria 3189, Australia  
Phone: 03 9555 7859 Fax: 03 9555 6747 International Fax +61 3 9555 6747  
Email: info@arx.com.au Internet: www.arx.com.au