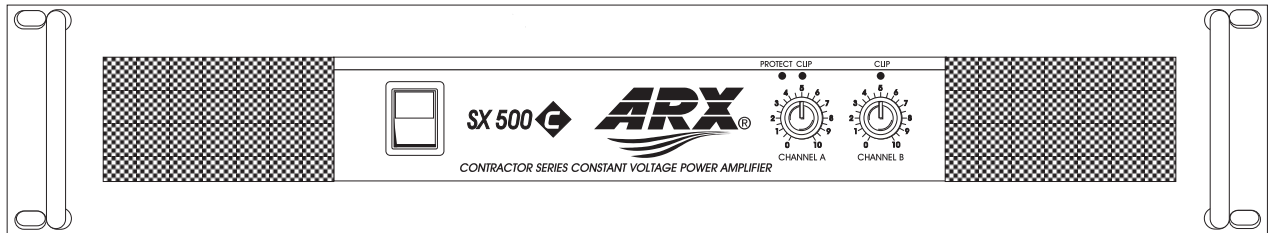


SX300c
SX500c
SX800c

**DUAL CHANNEL CONSTANT
VOLTAGE POWER AMPLIFIERS**



<http://www.arx.com.au>



C is for Contractor

The SX 300C, 500C and 800C models (the C denotes Contractor) are a rugged new series of amplifiers designed smart, and ready for the intensive duty cycle that today's installations demand. More power, more protection, less heat, less weight.

These amplifiers represent significant breakthroughs in the art of providing effortless, reliable power from compact, efficient amplifier designs. They each incorporate 2 x toroidal output line transformers, for easily driving constant voltage speaker systems.

Total Control

On the 4mm steel non-scratch Lexan® covered front panel there are detented level controls, protection and Clip LEDs for each channel, plus an illuminated AC power switch.

The rear panel has balanced jack and XLR inputs, plus an Input Link switch which eliminates the need for patch leads to link channels. 5 way binding posts are fitted as standard, as are heavy duty rear rack ears for four point racking.

Reliability Designed In

Ultra reliable mosfet circuitry, plus a rugged, high current non-switching power supply are complemented by new relay switched heat and DC protection circuits. You'll appreciate the fact that they are

re-settable circuits, too, not simple 'one time only' crowbars that have to be stripped down to be replaced.

Keeping Our Cool

All amplifiers utilize massive precision engineered UltraFin™ heatsinks, to rapidly and evenly dissipate heat from the amplifier. Twin variable speed DC cooling fans supply a high c.f.m forced air supply to ensure optimum temperature of the output devices and long term reliability.

Built to go the Distance

Look inside the SX amplifiers and you'll see that they look a whole lot different from traditional amplifiers, with their masses of loose wiring, solder tags, and loads of interconnected circuit boards. We've learned a lot of manufacturing lessons from our successful range of ARX signal processors, and we've adapted those techniques by putting all the circuitry on one motherboard.

Monococque construction, designed using computer modelling techniques, has enabled us to produce a more efficient, rigid, all steel chassis for strength without excess weight.

At ARX, we're committed to producing amplifiers that keep going day after day, night after night, because we know that audio professionals like yourself depend on them to earn a living.

Features

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

Complete Specifications

Power Supply

Toroidal power transformer and Heavy duty diode bridge. To retain dynamic range under even the heaviest load conditions, the SX 'C' series utilise large multi capacitor arrays for high peak current output. All models feature twin toroidal output transformers

Input Impedance

20 Kohms Balanced

Input Sensitivity

.775 Vrms (0 dB)

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 70v or 100v transformer outputs

Output Power (RMS) per Channel

SX300c

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

SX500c

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

SX800c

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 μ 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

5 way Binding Posts

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

SX300c 13 Kg (27 lbs)

SX500c 14.2 Kg (30 lbs)

SX800c 19.4 Kg (42 lbs)

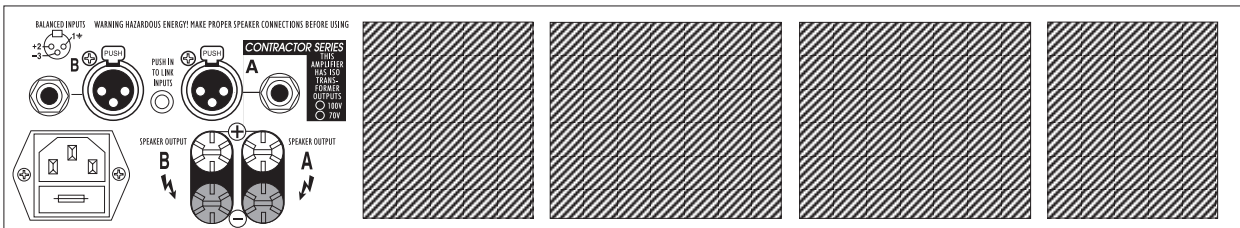
Size

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

Depth

14" (350mm)

Add 1" (25 mm) to depth behind front panel to allow for rear rack mount ears Add 1" (25mm) to depth before front panel to allow for handles.



REAR PANEL

- XLR and Jack inputs
- Inputs link switch
- Bridged mono switch
- Speakon or Binding Post outputs.
- Removable power lead with IEC 3 pin connector and fuse drawer

ARCHITECTS AND ENGINEERS 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 or 70v 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 3 Audio ground. Output connectors shall be either 5 way binding posts or Neutrik Speakons.

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.

There shall be LED status indicators for Clip and Protection functions. Protection features shall consist of 2 x high c.f.m. fans, plus relay switched DC sensing, and Input/Output muting at turn on and turn off.

(SX300C)

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 SX300C.

(SX500C)

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 SX500C.

(SX800C)

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 SX800C.



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