SXS II R

SX1200 SX1800 SX2400 SX2800

SX3200



# **Owners Manual**



## Introduction

We know you don't like reading owners manuals, but you've just purchased one of the finest sound reinforcement power amplifiers around, and we want to tell you about it! So, before you plug in, we'd like to suggest you take just a few moments out to scan these pages. We'll make it as painless as possible, we promise—and, who knows, you might just pick up a tip or two.

The Samson SX Series stereo power amplifiers have been designed to provide robust, clean output with low distortion and wide dynamic range, along with the dependability demanded by the most professional audio engineers and installers.

Their convenient 2 rack-space design is compact, and yet there's plenty of power available, with 2 x 300 Watts at  $8\Omega$ , 2 x 450 Watts at  $4\Omega$  for the SX1200, 2 x 400 Watts at  $8\Omega$ , 2 x 600 Watts at  $4\Omega$  for the SX1800, 2 x 550 Watts at  $8\Omega$ , 2 x 750 Watts at  $4\Omega$  for the SX2400, 2 x 700 Watts at  $8\Omega$ , 2 x 900 Watts at  $4\Omega$  for the SX2800 and a massive 2 x 800 Watts at  $8\Omega$ , 2 x 1100 Watts at  $4\Omega$  for the SX3200. That power rating is over the full frequency spectrum, from 10 Hz to 55 kHz, which helps give the SX amps their natural and open sound quality.

For mono applications, a Bridge mode links both channels of the amplifiers, thus providing even more power, with power ratings of 900 watts for the SX1200, 1200 watts for the SX1800, 1500 watts for the SX2400, 1800 watts for the SX2800 and a massive 2200 watts for the SX3200 into 8 ohms load.

Input connections are made via Combination connectors allowing for both balanced XLR and balanced 1/4"TRS connections. For the outputs, the SX series amplifiers provide standard 5-way binding posts, as well as a Speakon™ connectors. Front-panel controls and displays include a power switch with LED indicator, as well as independent left and right channel input level controls. To help you set the correct operating levels, the SX amplifiers include front panel Signal, Peak and Protection LED indicators.

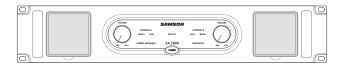
Like all serious power amplifiers, the SX Series internal electronics are based around a serious power-core, with over-sized toroid al transformers and large extruded heat sinks. To keep the SX amplifiers running cool, their designs employ twin internal wind tunnels with forced-air cooling via two temperature-sensitive, variable speed fans, which greatly reduces the chance of thermal and overheating problems. Multi-stage protection for power-up, over-heating, over-current, short circuit, low output impedance and DC voltage, assures high reliability under the most demanding situations.

The SX amps are road tough with their all steel chassis, 19-inch rack mount design and convenient carry handles, the SX amplifiers are ready for a life of travel, or to make home in a nice fixed installation.

Optimized for live sound venues, houses of worship, commercial installations, and for driving small and medium-sized live PA systems, the SX amplifiers will deliver reliable power from gig-to-gig, venue-to-venue and day-to-night.

In these pages, you'll find a detailed description of the many features of the SX Series power amplifier, as well as a guided tour through its front and rear panels, step-by-step instructions for its setup and use, and full specifications. You'll also find a warranty card enclosed—please don't forget to fill it out and mail it in so that you can receive online technical support and so we can send you updated information about these and other Samson products in the future. SPECIAL NOTE: Should your SX Series ever require servicing, a Return Authorization number (RA) is necessary. Without this number, the unit will not be accepted. If purchased in the United States, please call Samson at 1-800-372-6766 for a Return Authorization number prior to shipping the unit. If purchased outside the United States, contact your local Samson dealer for details. Please retain the original packing materials and, if possible, return the unit in its original carton and packing materials.

#### **SX Series Features**



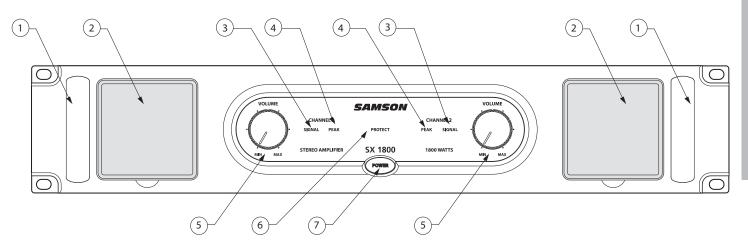
The Samson SX Series power amplifier utilizes the latest technology in professional power amplifier design. Here are some of its main features:

• Power to spare - The SX Series, each amplifier delivers the following power ratings.

SX1200	2 x 300 Watts at $8\Omega$ and 2 x 450 Watts at $4\Omega$
SX1800	2 x 400 Watts at $8\Omega$ and 2 x 600 Watts at $4\Omega$
SX2400	$2 \times 550$ Watts at $8\Omega$ and $2 \times 750$ Watts at $4\Omega$
SX2800	2 x 700 Watts at $8\Omega$ and 2 x 900 Watts at $4\Omega$
SX3200	2 x 800 Watts at $8\Omega$ and 2 x 1100 Watts at $4\Omega$

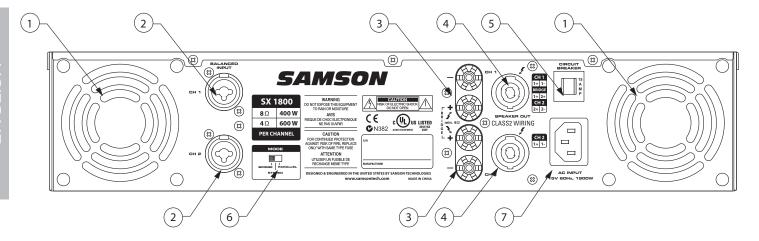
- For mono applications, a Bridge mode links both channels of the amplifiers, thus providing even more power, with power ratings of 900 watts for the SX1200, 1200 watts for the SX1800, 1500 watts for the SX2400, 1800 watts for the SX2800 and a massive 2200 watts for the SX3200 into 8 ohms load.
- Clean, crisp sound Impressive audio specifications such as 0.04% THD, dynamic range of 105 dB, crosstalk of 80 dB, and frequency response of 10 Hz to 55 kHz guarantee ultra-clean sound quality.
- Independent input level controls for each channel allow precision adjustments.
- LED signal indicators for each channel continuously display power output levels and allow you to correct for overloading (clipping) conditions.
- Unique stable bipolar circuit design that continuously keeps DC output during idling at or near zero volts (thus keeping idle speakers at their zero point). This serves to minimize heat overload problems by effectively preventing the SX Series from applying power when unnecessary.
- Forced air cooling via two temperature-sensitive, variable speed fans provides reliable performance without thermal and overheating problems.
- Protection relay circuitry (with dedicated LEDs for each channel) that guards against overheating or faulty wiring conditions and also prevents "thumps" when powering on or off. This means that you can use the SX Series with a single power strip into which a mixer or other audio devices are connected, without danger of damage to connected speakers.
- Combination input connectors for each channel accommodate both balanced XLR or balanced 1/4-inch TRS plugs.
- Output connections are made via 5-way binding posts and Speakon™ connectors.
- Toroidal transformer power supply for high current and low profile.
- User-resettable circuit breaker for fast, easy startup following a power supply overload.
- The SX Series can be mounted in any standard 19" rack (taking just two rack spaces), making it easy to integrate the amp into
  any fixed or traveling PA rig.
- Rugged construction (an all-steel chassis with a cool gray finish and a lightweight anodized aluminum heat sink) makes the SX Series eminently roadworthy.
- · Extended three-year warranty.
- Last but certainly not least, value. The Samson SX Series has been designed from the ground up to deliver excellent yet
  affordable sound quality.

## **Guided Tour - Front Panel**



- **1: Handle** For easy transport while carrying, or while rack mounting, the SX amplifier features two steel handles located conveniently on the left and right side of the front panel.
- **2: Fan Vent** The SX amplifiers stay cool thanks to their twin, forced-air cooling tunnels. Cool air is drawn through the front panel fan filters, reducing the temperature of the internal components while forcing the heat out the rear vents. The fans will actually sense the internal temperature and adjust their speed to maintain the optimum cooling conditions.
- **3: Signal LED** The front panel LED indicators continuously monitor the power output level for the corresponding channel. The SIGNAL LED lights whenever output signal is present.
- **4: Peak LED** The PEAK segment lights whenever the channel is outputting signal at full strength. For the best signal-to-noise ratio, the right (PEAK) segment should light occasionally during peak levels; if it lights frequently, you may be overloading the SX Series and a distorted ("clipped") signal is probably being output. If this occurs and backing off the Input Level control delivers too low an output level for your application, consider using Bridge mode (see the "Bridge and Parallel Modes" section on page 8 in this manual for more information).
- **5: Channel input level controls** These 42-position detented controls allow you to precisely adjust the input level of the signal arriving at the rear-panel input jacks (see #2 on the following page). At their fully counterclockwise position (labeled "MIN"), the signal is attenuated by 80 dB (essentially completely off). At their fully clockwise position (labeled "MAX"), the signal is at unity gain (that is, no attenuation). When +4 dBu of signal arrives at the input jacks and the Channel input level controls are set to their fully clockwise " 0 dB" position, the SX Series delivers full power output.
- **6: Protection LED** This goes on for approximately five seconds whenever the SX Series is powered on and then turns off (you'll hear a "click" when it does so). The Protection LED will also light when overheating or other severe problems occur (see page 7 in this manual for more information). It is normal for the Protection LED to fade slowly when the amp is powered off. When lit, no signal is provided to any connected speakers, thus muting them and preventing any "thump" from occurring. For a complete description of the conditions under which this light goes on, see the section entitled "The SX Series Protection Circuitry" on page 7 of this manual.
- 7: Power switch Use this to power the SX Series on or off. The internal LED lights whenever the SX Series is powered on.

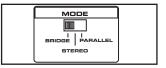
## **Guided Tour - Rear Panel**



- 1: Fan This variable-speed fan provides vital cooling to your SX Series (the hotter the amp gets, the faster the fan blows!). Make sure that both the front and rear panels are kept free of all obstructions and that cool, fresh air is accessible at all times. Also, try to ensure that the SX Series is used in a dust-free environment.
- 2: Input connectors Connect incoming signals to these electronically balanced Combination connectors, using either XLR or 1/4" TRS (Tip/Ring/Sleeve) plugs, wired as follows: Pin 2 (or Tip) hot, Pin 3 (or Ring) cold, and Pin 1 (or Sleeve) ground. We recommend the use of balanced three-conductor cabling wherever possible (unbalanced two-conductor 1/4" plugs can also be inserted into these inputs, but you'll get better signal quality and less outside noise and hum if you use balanced lines). The SX Series accepts input levels of any strength but needs at least +4 dBu to achieve maximum power. Stereo signals should be connected to both the Channel 1 and Channel 2 input jacks; however, when operating the SX Series in Bridge or Parallel modes, use the Channel 1 input jack only. See page 8 in this manual for more information about Parallel mode and pages 9 and 10 in this manual for full interconnection instructions.
- **3: 5-way Binding Post** Use these to connect each channel of the SX Series to 4-ohm or 8-ohm loudspeakers. Be sure to connect the loudspeaker correctly, with the red (+) terminal normally connected to the positive input of the speaker and the black (ground) terminal normally connected to the negative input of the speaker. See page 8 in this manual for more information about Bridge mode and pages 9 and 10 in this manual for full speaker connection instructions.
- **4: Speakon™ output connectors** Alternatively, you can use these to connect each channel of the SX Series to 4- or 4-ohm loudspeakers. See page 8 in this manual for more information about Bridge mode and pages 9 and 10 in this manual for full Speakon™ connector wiring and interconnection instructions.
- **5: Circuit Breaker** This circuit breaker will trip if there is a fault with the mains voltage or if maximum output is exceeded (very highly distorted). Push it in (once only!) to restart the amplifier after a short rest period.
- **6: Bridge / Stereo / Parallel switch** For normal operation, place this three-way switch in its center ("STEREO") position. When placed in its right ("PARALLEL") position, the signal arriving at the Channel 1 input only is routed to the power amplifiers of both Channel 1 and Channel 2 (the Channel 2 input is ignored). When placed in its left ("BRIDGE") position, the signal arriving at the Channel 1 input only is again routed to both power amplifiers (again, the Channel 2 input is ignored), but the two power amplifiers are bridged together. For more information, see the "Bridge and Parallel Modes" section on page 8 in this manual and the "SX Series Connections" section on pages 9 -10 in this manual. WARNING: Due to the extremely high power output of the SX Series when used in Bridge mode, be sure to use only loudspeakers sufficiently rated to handle the resultant wattage (in Bridge mode, these must be 4 or 8-ohm speakers).
- **7: AC input** Connect the supplied heavy-gauge 3-pin "IEC" power cable here.

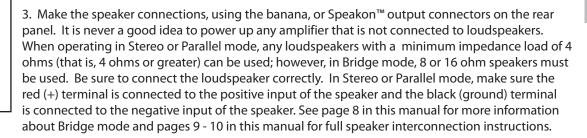
## **Setting Up and Using Your SX Series**

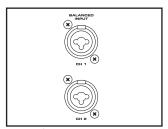
Setting up your SX Series is a simple procedure which takes only a few minutes:



Bridge / Stereo / Parallel switch

- 1. Remove all packing materials (save them in case of need for future service) and decide where the amplifier is to be physically placed—it can be used free-standing or mounted in a standard 19" rack, requiring only two rack spaces. When installed, make sure that both the front and rear panels are unobstructed and that there is good ventilation around the entire unit (we recommend the use of spacer panels, especially if multiple amplifiers are used in a rack.
- 2. Set the rear panel Bridge/ Stereo / Parallel switch as desired (see the "Bridge and Parallel Modes" section on page 8 in this manual for more information).

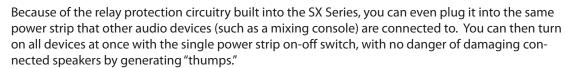


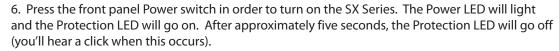


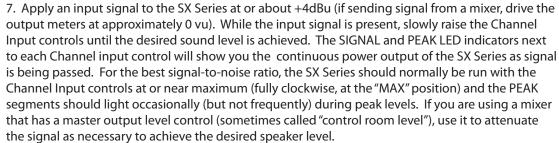
**Output connectors** 

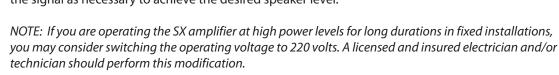
Input connectors

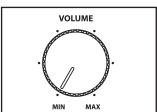
- 4. Next, make the signal input connections, using the Combination input connectors on the rear panel (if operating the SX Series in Bridge or Parallel mode, use the Channel 1 input only—see page 8 in this manual for more information). If your mixer or crossover network has balanced outputs, we recommend the use of three-conductor cabling and connectors (unbalanced two-conductor plugs can also be inserted into the Combo inputs, but you'll get better signal quality and less outside noise and hum if you use balanced lines).
- 5. On the front panel of the SX Series, turn both Channel input controls fully counterclockwise (to their "MIN" setting). Then connect the supplied heavy-gauge 3-pin "IEC" cable to the rear panel IEC connector and to any grounded AC socket.











Channel Input control

PROTECT
SX 1800

Protection LED

PEAK SIGNAL

Three-segment LED meter

If you encounter difficulty with any aspect of setting up or using your SX Series, contact your local Samson dealer. If purchased in the United States, you can call Samson Technical Support (1-800-372-6766) between 9 AM and 5 PM EST.

## **The SX Series Protection Circuitry**

As noted in the "Guided Tour" section of this manual, the SX Series front-panel Protection LED indicates the activity of the relay speaker connection circuitry. When the Protection LED is lit, this circuitry is active, and all connected speakers are muted (provided with no signal), thus protecting them and preventing any audible "thump" from occurring.

The following conditions will cause the Protection LED to go on:

• *Initial power-up:* For approximately five seconds after initial power-up, the protection circuitry is activated and the speaker outputs are muted. If everything is operating normally, you will hear an audible click at the conclusion of this brief period, as the protection circuitry is deactivated and the SX Series begins delivering signal to connected speakers (at which point you'll hear a click). It is normal for the Protection LED to fade gradually after the amplifier is powered off.

WARNING: If the Protection LED fails to go out (and you fail to hear the accompanying audible click) approximately five seconds after power-up, turn the SX Series off immediately and check all external devices and wiring for possible shorts or other defects.

Overheating: A temperature sensing device in the SX Series will cause the protection circuitry to be activated (and the Protection LED to go on) whenever the operating temperature of the unit rises above a safe level. To guard against this problem, make sure the SX Series receives adequate ventilation on all sides and that both the front and rear panels are unobstructed.

- Severe overcurrent conditions: This occurs whenever the signal being input to the SX Series rises to a level above 20% THD (Total Harmonic Distortion).
- Shorted speaker cables: This will occur if, due to faulty wiring, the hot and ground signals being output by the SX Series are shorted to one another.
- Output impedance drops below 2 ohms: This can occur if the SX Series is connected to inappropriate speaker systems (see the "Setting Up and Using Your SX Series" section on page 6 in this manual for more information).
- DC voltage detected at speaker output: The most likely cause of this is an internal failure.

In general, any time the Protection LED lights up (other than during the approximately five seconds following initial power-up), there is reason to be concerned. If this occurs, turn the SX Series off immediately and carefully check all wiring and external devices in order to locate and correct the condition that caused the LED to light up in the first place.

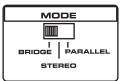
For further assistance, contact your local Samson dealer. If purchased in the United States, you can call Samson Technical Support (1-800-372-6766) between 9 AM and 5 PM EST.

#### SAMSON

PROTECT

SX 1800

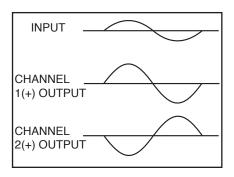
## **Bridge and Parallel Modes**



The SX Series provides a rear-panel switch that allows it to be used in either a Bridge or Parallel mode. When this switch is placed in the "STEREO" (center) position, the SX Series functions as a true stereo amplifier, where both of the two independent amplifier channels (Channel 1 and Channel 2) can receive different input signals and produce independent output signals. However, when the switch is placed in the "Bridge" (left) position, the Channel 1 inputs signal is routed to both power amplifiers bridged together, producing a single output signal with 900 watts for the SX1200, 1200 watts for the SX1800, 1500 watts for the SX2400, 1800 watts for the SX2800 and a massive 2200 watts for the SX3200 into 8 ohms load.

WARNING: Bridge mode is to be used only when the SX Series is connected to an 8 or 16 ohm speaker load. Use of Bridge mode with speaker loads of less than 8 ohms can result in severe damage to the unit due to excessive heat and current limiting and will void your warranty!

Bridge Mode



The illustration on the right shows how this works. In Bridge mode, the polarity (phase) of the Channel 2 output signal is reversed relative to that of the Channel 1 output signal. Both channels then process the same input signal, with the speaker load connected so that power is derived from both channels. The effective voltage swing seen by the load is thus doubled, so that the power output is multiplied by more four.

When using the SX Series in Bridge mode, be sure to connect your loudspeaker as shown in the illustrations on page 9 (and as silkscreened on the rear panel), with the red (+) terminal of the Channel 1 output connected to the positive input of the speaker and the red (+) terminal of the Channel 2 output connected to the negative input of the speaker.

Do not use the black ground (-) output terminal of either channel (the speaker load must "float" away from the amplifier chassis).

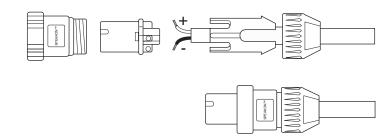
When the rear panel switch is placed in the right "PARALLEL" position, the SX Series operates in a unique Parallel mode. In this mode, only the signal present at the Channel 1 input is used. This signal is then routed to both the Channel 1 and Channel 2 power amplifiers, thus producing a dual mono output, with the following power ratings:

SX1200	2 x 300 Watts at $8\Omega$ and 2 x 450 Watts at $4\Omega$
SX1800	2 x 400 Watts at 8 $\Omega$ and 2 x 600 Watts at 4 $\Omega$
SX2400	$2x550Watts$ at $8\Omega$ and $2x750Watts$ at $4\Omega$
SX2800	$2x700Watts$ at $8\Omega$ and $2x900Watts$ at $4\Omega$
SX3200	$2x$ 800 Watts at $8\Omega$ and $2x$ 1100 Watts at $4\Omega$

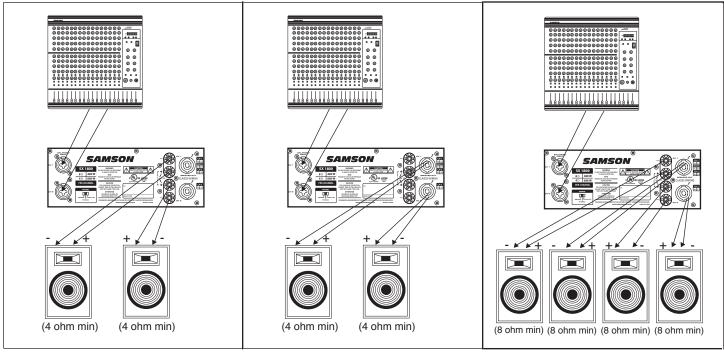
See pages 9 - 10 in this manual for interconnection diagrams when using the SX Series in Bridge or Parallel modes.

## **SX Series Connections**

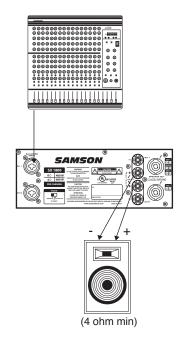
The illustrations on these two pages show the required interconnections when using the SX Series in Stereo, Bridge and Parallel modes. Wiring for Speakon™ connectors (shown on the right) is indicated where appropriate.

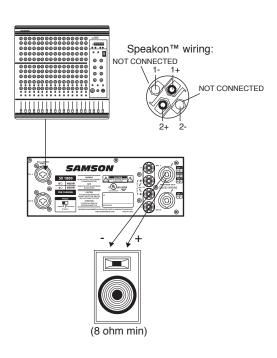


#### **Stereo Mode: (two or four speakers)**



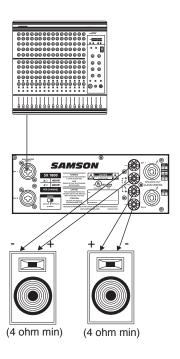
#### **Bridge Mode: (single speaker only)**

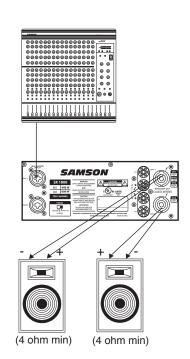


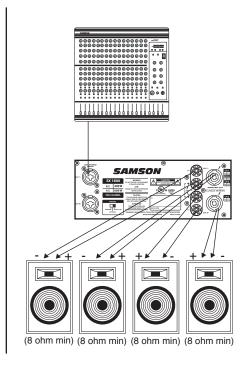


## **SX Series Connections**

## Parallel Mode: (two or four speakers)





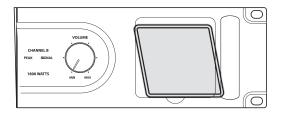


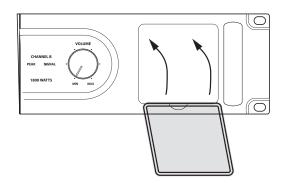
## **Cleaning the Fan Filters**

#### **Cleaning the Fan Filters**

From time to time, it may become necessary to clean the fan filters. It's a good idea to keep the fan filters clean to ensure maximum airflow, and cooling, through your SX Series amplifier. To clean the fan filters follow these simple steps.

- 1/ Remove the fan filter by placing your finger in the depressed area under the fan filter frame.
- 2/ Clean the filter with warm water and let the filter dry thoroughly before replacing.
- 3/ Replace the fan filter by aligning the frame to the top of the panel knock-out, and then, snap the frame back in place.





# **Specifications**

	SX1200	SX1800	SX2400	SX2800	SX3200
Rated Output Power					
Stereo both channel driven					
8 ohms	300 Watts	400 Watts	500 Watts	700 Watts	800 Watts
4 ohms	450 Watts	600 Watts	750 Watts	900 Watts	1100 Watts
Bridged mono 8 ohms	900 Watts	1200 Watte	1500 Watts	1000 Watte	2200 Watts
8 OTHERS	900 Walls	1200 Watts	1500 Walls	1800 Watts	2200 Walls
Signal to Noise Ratio (20Hz-20k)	102dB	102dB	104dB	104dB	104dB
Distortion(SMPTE-IM)	0.05%	0.01%	0.04%	0.04%	0.04%
Input sensitivity @8ohms	1.24V(4dBu)	1.24V(4dBu)	1.24V(4dBu)	1.24V(4dBu)	1.24V(4dBu)
Voltage Gain	32dB	33dB	34dB	35dB	35dB
Output Circuitry	AB	AB	Н	Н	Н
Current Consumption(115VAC)					
@1/8 rated power 40hms	6.3A	7.2A	7A	8.5A	8.5A
@1/3 rated power 4ohms	9.5A	12A	14.5A	17A	17A
@ rated power 4ohms, max.	15.5A	19.5A	26A	32A	
Distortion(typical @4 ohms)					
20Hz-20kHz,10dB below rated power	0.01%	0.01%	0.03%	0.03%	0.03%
IkHz,rated power	0.1%	0.1%	0.1%	0.1%	0.1%
Frequency Response @8ohms 1Watt	0/-0.5dB:20Hz-20kHz,0/-3dB:5Hz-60kHz				
Damping Factor(400Hz)	280	280	350	350	350
Damping Factor(400Hz) Input Impedance				350	350
Input Impedance		anced,30kohm Ba		350	350
. •	15kohm Unbal 10Vrms(22dBu	anced,30kohm Ba	alanced	350	350
Input Impedance Input Clipping Cooling	15kohm Unbal 10Vrms(22dBu	anced,30kohm Ba )	alanced	350	350
Input Impedance Input Clipping Cooling Connectors (each channel)	15kohm Unbal 10Vrms(22dBu Continuously v	anced,30kohm Ba ) variable speed, far	alanced n forced air	350	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input:	15kohm Unbal 10Vrms(22dBu Continuously v Active balance	anced,30kohm Ba ) variable speed, far d combo and1/4'	alanced n forced air '(6.3mm)TRS	350	350
Input Impedance Input Clipping Cooling Connectors (each channel)	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding	anced,30kohm Ba ) variable speed, far d combo and1/4' post and Speako	alanced n forced air '(6.3mm)TRS ns	350	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input:	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding	anced,30kohm Ba ) variable speed, far d combo and1/4'	alanced n forced air '(6.3mm)TRS ns	350	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite	anced,30kohm Ba ) variable speed, far d combo and1/4' post and Speako ch,Channel 1 and	alanced n forced air '(6.3mm)TRS ns 2 volume	350	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue	anced,30kohm Ba ) variable speed, far d combo and1/4' post and Speako	alanced n forced air (6.3mm)TRS ns 2 volume er)	350	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls  Indicators	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speakon ch,Channel 1 and ),Protection(ambore each Ch.,Peak(	alanced in forced air (6.3mm)TRS ins 2 volume er) red) for each Ch.		350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speako ch,Channel 1 and	alanced  n forced air  (6.3mm)TRS  ns  2 volume  er)  red) for each Ch.		350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls Indicators  Protection	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f Short circuit,Th protection, Tur	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speako ch,Channel 1 and ),Protection(ambo for each Ch.,Peak( nermal,Current liner on/Turn off mur	alanced  n forced air  (6.3mm)TRS  ns  2 volume  er)  red) for each Ch.  nit,DC offset,Curre		350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls  Indicators	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f Short circuit,Th protection, Tur	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speakon ch,Channel 1 and ),Protection(ambor or each Ch.,Peak(	alanced  n forced air  (6.3mm)TRS  ns  2 volume  er)  red) for each Ch.  nit,DC offset,Curre		350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls Indicators  Protection  Power Requirements  Dimensions(WXHXD)	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f Short circuit,Th protection, Tur	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speako ch,Channel 1 and ),Protection(ambo for each Ch.,Peak( nermal,Current liner on/Turn off mur	alanced in forced air (6.3mm)TRS ins 2 volume er) red) for each Ch. init,DC offset,Curre ting	ent inrush,RF	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls Indicators  Protection  Power Requirements	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f Short circuit,Th protection, Tur	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speako ch,Channel 1 and ),Protection(ambo for each Ch.,Peak( nermal,Current linern on/Turn off mu	alanced in forced air (6.3mm)TRS ins 2 volume er) red) for each Ch. init,DC offset,Curre ting	ent inrush,RF	350
Input Impedance Input Clipping Cooling  Connectors (each channel) Input: Output:  Controls Indicators  Protection  Power Requirements  Dimensions(WXHXD)	15kohm Unbal 10Vrms(22dBu Continuously v Active balance 5-way Binding AC power swite Power on(blue Signal(green) f Short circuit,Th protection, Tur	anced,30kohm Bayariable speed, far d combo and 1/4' post and Speako ch,Channel 1 and ),Protection(ambo for each Ch.,Peak( nermal,Current linern on/Turn off mu	alanced in forced air (6.3mm)TRS ins 2 volume er) red) for each Ch. init,DC offset,Curre ting	ent inrush,RF	350 48lb.(21.1kg)

Specifications are subject to change without notice.