Three Channel
Sound Reinforcement
Amplifier

Owners Manual

Model #
SLP-800S

Power Output
160W x 2 CH (main)
480W x 1CH (subwoofer)

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Safety Information

The lightning bolt within a triangle is intended to alert the user to the presence of un-insulated dangerous voltage levels within the product's enclosure.

This voltage may be of sufficient magnitude to constitute an electric shock risk.

To reduce the risk of electric shock, do not remove cover of this device. There are no user serviceable parts inside.

Refer servicing only to qualified service personnel.

The exclamation point within a triangle is intended to alert the user to important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety Precautions

- Read and retain these instructions
- Follow all instructions and heed warnings
- Do not use this device near water
- If the surface becomes dirty, clean only with dry cloth, do not use solvents or thinners
- Install in accordance with the manufacturer's instructions
- Do not block ventilation openings
- Do not install near heat sources such as radiators, heat registers, stoves, or other devices that produce heat
- Do not defeat the safety purpose of the grounded plug. This plug has two blades and a third ground prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet
- Protect the power cord from being stressed at the plugs, convenience receptacles, and where they exit the amplifier
- Only use accessories specified by the manufacturer
- Unplug the device during lightning storms or when unused for an extended time
- Refer all servicing to qualified personnel
- This device must not be exposed to water in any way. No object filled with liquids should be placed on apparatus

FEATURES

- Two channel stereo amplifier plus one subwoofer channel
- Rugged 2RU rack mount or tabletop enclosure
- Independent 30 position detent left/right/subwoofer level controls
- Variable 35Hz~250Hz internal crossover
- LED indicators for output power, CLIP AND PROTECTION modes
- Temperature controlled fan cooling
- Balanced XLR line level inputs
- Unbalanced RCA line level inputs
- Selectable input ground-lift
- Heavy duty binding post outputs
- Twist lock speaker connections (compatible with Speakon connectors)
- 117VAC/60HZ operation

APPLICATIONS

This amplifier is suitable for sound reinforcement applications including DJ, live music, theater and stage, monitoring, and any other demanding two channel music application. The unique beauty of this amplifier is the very high powered third channel and built in variable crossover, designed to power an additional subwoofer. Locations include schools and universities, houses of worship, residential distributed audio, clubs, sports bars, restaurant and other public locations.

It is designed for continuous duty use in demanding environments and when installed properly will provide years of reliable, trouble free operation.

FRONT PANEL

1. Rotary Gain Controls (main)
Independent gain control for each Channel A and Channel B. Controls are high quality 30 position detent controls that allow independent level adjustment of each channel.

2. Rotary Gain Controls (subwoofer)
Provides output level control for the subwoofer amplifier channel. Control is a high quality 30 position detent controls that allow independent level adjustment of this channel.

3. LED Bargraph Display
Seven segment display shows relative output of each channel. First five LED's are green, illustrating proper output. Yellow clip LED indicates the amplifier is clipping, and that maximum power output is being exceeded. Excessive clipping may be damaging to the amplifier and connected speakers, thus these indicators should illuminate very infrequently. The red LED indicates the amplifier has entered protection mode, and that channel has disengaged in order to protect itself. In the event this occurs, the amplifier must be turned off, the problem corrected, and then turned back on (reset).

4. Adjustable crossover
This 12db/octave adjustable filter determines the high frequency cutoff of the subwoofer channel, and low frequency cutoff of the main speakers. The correct setting of this control will depend upon the frequency response characteristics of the connected speakers. Begin with this setting 10~15% above the lowest frequency that your main speakers will respond to, then adjust from there. Trial and error is often the best determination for the proper setting.

5. Master POWER Switch
Rocker style switch provides ON/OFF control of the amplifier.

REAR PANEL

Speaker Output Connections
This amplifier is designed to accommodate a variety of speaker configurations, depending upon specific needs. However, when connecting speaker systems, it is critical that impedance be considered in order to ensure reliable operation and prevent permanent damage to the amplifier.

Impedance
This amplifier can support speaker loads of 4Ω and higher, on each channel. if more than one pair of speakers are to be connected, each speaker MUST be 8Ω or higher, otherwise permanent damage will occur. If 4Ω speakers are to be used, ONLY one pair, plus one subwoofer may be connected.

1. Binding Posts
Heavy duty binding posts are intended for bare wire speaker connection. It is important that proper polarity be observed when connecting the pair of speakers. When the amplifier is in stereo mode, Individual + and – connections are provided and clearly marked for connection of a speaker pair.

2. Twist Lock Connectors
These connectors are designed to mate with industry standard Speakon™ connectors. In is important to note that separate connections are used for bridged and stereo operation.

3. Ground Lift
This selector disengages the input shield connections (outer shield on RCA inputs or Pin-1 on the XLR inputs) from the chassis and earth ground. This is often necessary to eliminate ground loops that exist between multiple components that are independently grounded. These ground loops manifest themselves as noise, buzzing or 60Hz hum when present. Two position slide switch in left position, ground engaged. In the right position, ground is disengaged or "lifted".

4. Unbalanced Line Level Inputs
Independent Channel A and Channel B female RCA connectors accept line level input from traditional consumer audio products such as CD/DVD players, tape decks, computer sound cards, MP3 players and iPods.

5. Balanced ¼" Line Level Input
Independent Channel A and Channel B female 1/4" connectors accept line level input from mixing console or similar audio source. This input is designed to accept signal from prosound equipment, typically +4dBv. As labeled on the unit, the sleeve is ground/shield, the center ring is (–) or inverted signal, and the tip is (+) signal.

6. Balanced XLR Line Level Input
Independent Channel A and Channel B female XLR connectors accept line level input from mixing console or similar audio source. This input is designed to accept signal from prosound equipment, typically +4dBv. As labeled on the unit, Pin1 is ground/shield, Pin2 is (+) signal, Pin3 is (–) or inverted signal.

Specifications	
RMS Power Output	
Stereo 8Ω	100W x 2CH + 300W x 1CH
Stereo 4Ω	160W x 2 CH + 480W x 1Ch
Frequency Response	10Hz ~ 50KHz ±1.5dB
S/N Ratio	>100dB (A weighted RMS)
Damping Factor	>200
Protection	Short circuit, current limiting, thermal cutoff, DC fault, AC mains transients, soft start, AC line fuse
Cooling	Variable speed fan
Power Consumption	9000W
Dimensions	4" (H) x 19" (W)x 15.5" (D) / 2RU

MCM Custom Audio and Stellar Labs products are warranted, by MCM Electronics, against manufacturer defects for a period of one year from the original date of purchase. This warranty is limited to manufacturer defects, in either materials or workmanship. MCM Electronics, or any other worldwide divisions of Premier Farnell PLC, are not responsible for any consequential or inconsequential damage to any other component, structure or the cost of installation or removal of said items.

For questions or specific information regarding warranty replacement or repair, contact:

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