

Data Sheet

R-SERIES AMPLIFIERS

R235LS, R275HC, R850MC, R1250MC

Russound's R-Series amplifiers employ a robust circuit design for stability under demanding loads. All models feature auto signal-sensing inputs and bridgeable channel pairs for increased power output and flexibility of application. All amplifier channels feature independent gain controls for precise level matching and dual speaker outputs for convenience. Optional rack-mount ears are included with all models except the R235LS, which features a low-profile design and mounting capability integrated into the chassis.



Two of the amplifiers have unique features for special applications. The compact R235LS provides automatic switching between a multiroom audio system and a local source, such as a TV or a computer. The R275HC includes a selectable low-cut filter, designed to protect autoformer-based volume control and speaker selector systems.

Features	R235LS	R275HC	R850MC	R1250MC
Total channels	2	2	8	12
Bridgeable channel pairs	1	1	4	6
Auto signal-sensing inputs	✓	✓	✓	✓
Separate channel gain controls	✓	✓	✓	✓
Thermal protection	✓	✓	✓	✓
Short-circuit protection	✓	✓	✓	✓
Rack mount ears included		✓	✓	✓
12-volt trigger input & output	✓		✓	✓
Bus input & output			✓	✓
Source loop outputs		✓		
Selectable low-cut filter		✓		
High-current design		✓		
Automatic local source switching	✓			

Specifications



R235LS

Stereo Continuous Output Power:

35W per channel at 8 ohms

50W per channel at 4 ohms

Bridged Mono Output Power: 100W at 8 ohms

Distortion: <0.05% THD+N from 20Hz to 20kHz

Signal-to-Noise Ratio: >100dB A-weighted

Frequency Response: 20Hz to 20kHz \pm 0.3dB

Input Sensitivity:

70mV for 1W at 8 ohms

420mV for 35W at 8 ohms

Line Input Impedance: 47 kilohms

Voltage Gain: 32dB

Delay Time: 5 seconds to 4.5 minutes

Input Trigger: 12VDC 10 kilohms

Output Trigger: 12VDC 100mA max

Power Requirements:

North America: 120VAC 60Hz 1.2A

Europe: 230VAC 50Hz 0.6A

Dimensions: 8.625" W x 10" D x 2.375" H (22 x 25.4 x 6 cm)

Weight: 8.5 lbs. (3.8 kg)



R275HC

Stereo Continuous Output Power:

75W per channel at 8 ohms

100W per channel at 4 ohms

Bridged Mono Output Power: 200W at 8 ohms

Distortion: <0.05% THD+N from 20Hz to 20kHz

Signal-to-Noise Ratio: >100dB A-weighted

Frequency Response: 20Hz to 20kHz \pm 0.3dB

Input Sensitivity:

70mV for 1W at 8 ohms

610mV for 75W at 8 ohms

Line Input Impedance: 47 kilohms

Voltage Gain: 32dB

Power Requirements:

North America: 120VAC 60Hz 2.5A

Europe: 230VAC 50Hz 1.2A

Dimensions: 17" W x 14" D x 4.125" H (43 x 35.5 x 10.5 cm)

Rack space: 2U

Weight: 20.3 lbs. (9.2 kg)



R850MC

Single Zone Maximum Output Power (0.1% THD+N; 1 kHz):

50W per channel, 2 channels at 8 ohms

80W per channel, 2 channels at 4 ohms

140W at 8 ohms, 2 channels bridged

All Zones Continuous Output Power:

35W per channel, 8 channels at 8 ohms

50W per channel, 8 channels at 4 ohms

100W at 8 ohms, each zone bridged

Distortion: <0.05% THD+N from 20Hz to 20kHz

Signal-to-Noise Ratio: >100dB

Frequency Response: 20Hz to 20kHz \pm 0.3dB

Input Sensitivity:

70mV for 1W at 8 ohms

500mV for 50W at 8 ohms

Line Input Impedance: 47 kilohms

Voltage Gain: 32dB

Delay Time: 0.5 to 4.5 minutes

Input Trigger: 12VDC 10 kilohms

Output Trigger: 12VDC 100 mA

Power Requirements:

North America: 120VAC 60Hz 5A

Fuse Rating: T10AL 250V

Europe: 230VAC 50Hz 2.5A

Fuse Rating: T7AL 250V

Dimensions: 17" W x 16.5" D x 5.875" H (43 x 42 x 15 cm)

Rack space: 3U

Weight: 38.1 lbs. (17.3 kg)



R1250MC

Single Zone Maximum Output Power (0.1% THD+N; 1 kHz):

50W per channel, 2 channels at 8 ohms

80W per channel, 2 channels at 4 ohms

140W at 8 ohms, 2 channels bridged

All Zones Continuous Output Power:

35W per channel, 12 channels at 8 ohms

50W per channel, 12 channels at 4 ohms

100W at 8 ohms, each zone bridged

Distortion: <0.05% THD+N from 20Hz to 20kHz

Signal-to-Noise Ratio: >100dB

Frequency Response: 20Hz to 20kHz \pm 0.3dB

Input Sensitivity:

70mV for 1W at 8 ohms

500mV for 50W at 8 ohms

Line Input Impedance: 47 kilohms

Voltage Gain: 32dB

Delay Time: 0.5 to 4.5 minutes

Input Trigger: 12VDC 10 kilohms

Output Trigger: 12VDC 100mA

Power Requirements:

North America: 120VAC 60Hz 7A

Fuse Rating: T10AL 250V

Europe: 230VAC 50Hz 4A

Fuse Rating: T10AL 250V

Dimensions: 17" W x 16.5" D x 5.875" H (43 x 42 x 15 cm)

Rack space: 3U

Weight: 48.9 lbs. (22.2 kg)

All R-Series amplifiers have an IEC 320 power connector with 3-pole detachable power cord.

Since 1967, innovation, quality and reliability have been the core of the Russound product tradition. Today, Russound offers everything for enjoying multiroom audio-video in your home. All distributed audio-video solutions are built to high standards and designed with the unique consideration of making products that are a pleasure to live with and enjoy.