



SPA Series

SPA2-60 | SPA4-60

Low-Z / High-Z Professional Amplifiers



Features

- **Up to 60 watts per channel into 4 and 8 ohms** - The outputs of the SPA2-60 and SPA4-60 are designed to provide 60 watts per channel into Low-Z loads
- **ENERGY STAR qualified amplifier** - SPA2-60 and SPA4-60 are ENERGY STAR qualified amplifiers; efficient class-D amplifiers conserve energy, reduce operational cost and do not require active cooling
- **Bridgeable outputs for higher power** - Bridging the outputs of the SPA2-60 and SPA4-60 provide up to 200 watts into low impedance, and up to 250 watts into 70V or 100V providing unmatched flexibility
- **Auto-Ramp provides quiet startup and power-down** - The ENERGY STAR auto-ramp circuitry ensures quiet and fast power up from standby and seamless power-down following 25 minutes of inactivity, dramatically reducing power consumption
- **Rack-mountable 1U, half rack width enclosure** - The SPA2-60 and SPA4-60 can be mounted in 1 RU, 1/2 rack space, and their clever joining brackets enable easy under-table and wall-mounting

The SPA Series amplifiers from QSC are two 1 RU, 1/2 rack space, convection cooled power amplifiers delivering two or four channels of 60 watts per channel into 4Ω and 8Ω. These amps can also be bridged to supply 200 watts into 4Ω and 8Ω, and up to 250 watts into 70V or 100V loads making them extremely flexible for Low-Z or High-Z applications. Utilizing an advanced Class-D amplifier design and Universal Power Supply the SPA Series are amazingly efficient allowing them to be convection cooled. Both amplifiers in the series are ENERGY STAR qualified with quiet auto-ramp standby functionality. The SPA2-60 and SPA4-60 are housed in an unobtrusive black chassis with unique mounting hardware enabling rack, table and wall mounting.

SPA2-60

The SPA2-60 two channel amplifier delivers 60 watts rms per channel into 4 or 8 ohms; the two channels can also be bridged providing up to 200 watts rms into 4 or 8 ohms. When the channels are bridged they can be switched into 70V or 100V direct drive mode providing up to 250 watts rms into a mono 70V or 100V output. There is also an 80Hz highpass filter for bridged operation ensuring that 70V or 100V loudspeakers transformers are not overdriven and saturated by too much low frequency content. The SPA2-60 is ideal for stereo or mono applications of voice or music audio content.

SPA4-60

The SPA4-60 four channel amplifier delivers 60 watts rms per channel into 4 or 8 ohms; the four channels can also be bridged in pairs, each pair providing up to 200 watts rms into 4 or 8 ohms. Like the SPA2-60, the bridged channels of the SPA4-60 can be switched into 70V or 100V direct drive mode providing up to 250 watts rms into a 70V or 100V output; each bridged output also features an 80Hz highpass filter. The SPA4-60 is perfect for

applications with mixed outputs such as four low-Z outputs for a mix-minus system, a stereo TV reinforcement system with a 70V or 100V output for ceiling conferencing speakers, a stereo with mono Subwoofer system, or even two sets of 70V or 100V outputs for a zoned system.

Efficient Amplifier with Auto-Ramp

The SPA Series are ENERGY STAR qualified amplifiers that utilize a highly efficient class-D design that conserves energy and requires no active cooling. The auto-ramp standby functionality is quiet with no audible pops or clicks when going into or coming out of standby. The SPA2-60 consumes just 8 watts in idle and less than 1 watt when in standby, while the SPA4-60 consumes 11 watts in idle, but still less than 1 watt in standby.

Amplifier Protection

Both amplifiers in the SPA series feature rms and thermal limiting, as well as protection against over current, short circuit, and under/over voltage.

Remote Control and Mounting

The SPA2 and the SPA4 offer general purpose inputs for remote Volume and Standby control for applications requiring external adjustment. They also come with multiple mounting options. Every SPA amplifier comes with a complete mounting kit allowing it to be rack mounted by itself or with a second unit in a 1RU space. Included connecting brackets provide additional strength when rack mounting two amps together, but also make for simple under-table or wall mounting (like behind a TV). The SPA amplifiers can also be mounted in plenum spaces when used with the Plenum Kit accessory.



Channels	
SPA2-60	2 Channel
SPA4-60	4 Channel
Stereo Mode (all channels driven)	
8Ω	60 W
4Ω	60 W
Bridged Outputs (per bridged output pair)	
8Ω & 4Ω	200 W
70V	250 W
100V	250 W
Frequency Response (4Ω and 8Ω)	20 Hz - 20 KHz +/- 0.1 dB
Signal to Noise (20 Hz - 20 KHz)	>100 dB
Input Sensitivity	1.23V (+4 dBu)
Gain at 8Ω	25.0 dB
Output Circuitry	Class D
Input Impedance	>10k, balanced or unbalanced
Maximum Input Level	12.3V (+24 dBu)
Cooling	Convection
Input Connectors	
SPA2-60	3.5 mm Euro, 5 position (green)
SPA4-60	3.5 mm Euro, 10 position (green)
Remote Connectors	
SPA2-60	3.5 mm Euro, 5 position (black)
SPA4-60	3.5 mm Euro, 10 position (black)
Output Connectors	5 mm Euro, 4 position (green)
Front Panel Indicators	Power, per channel Signal, per channel Protect/Limit
Rear Panel Indicators	Bi-Color LED Signal/Protect/Limit per channel
Controls	4Ω/8Ω/70V Bridged Highpass On/100V Bridged Highpass (per channel pair)
General Purpose Inputs	Remote Volume, Remote Standby, on 3.5 mm connectors (10k potentiometer is not included)
Highpass Filter	80Hz in Bridged 70V & 100V
Dimensions	1.7" x 8.7" x 9.5" (43 mm x 220 mm x 241 mm)
Net Weight	
SPA2-60	3.5 lb (1.1 kg)
SPA4-60	4.0 lb (1.4 kg)
Shipping Weight	
SPA2-60	6 lb (2.3 kg)
SPA4-60	6.5 lb (2.5 kg)
Power Requirements	Universal Power Supply 100 - 240 VAC, 50 - 60 Hz with active power factor correction
Agency Approvals	UL, CE, Energy Star, RoHS/WEEE compliant, FCC Class B (Conducted and Radiated emissions), UL 2043 with Plenum Kit accessory
Carton Contents	IEC Cable, Quick Start Guide, Connector Pack, Rack Mount Ears, Mounting Brackets

Mounting Configurations:



Specifications subject to change without notice.

