



## SPA Series

### SPA2-60 | SPA4-60 SPA2-200 | SPA4-100

Low-Z / High-Z Professional Amplifiers

#### Features

- **Up to 200 watts per channel into 4 and 8 ohms** - the outputs of the SPA2 and SPA4 -60 models are designed to provide up to 60 watts per channel while the SPA4-100 will provide up to 100 watts and the SPA4-200 will provide up to 200 watts per channel into Low-Z loads
- **ENERGY STAR qualified amplifier** - The ENERGY STAR qualified SPA Series employ an efficient class-D design to conserve energy and reduce operational cost
- **Bridgeable outputs for higher power** - Bridging the outputs of the SPA -60 amplifiers provide up to 250 watts, while the SPA2-200 and the SPA4-100 will deliver up to 350 watts into 70V or 100V when bridged
- **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 SPA Series 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 four half rack 1U, convection cooled power amplifiers delivering two or four channels of up to 200 watts per channel into 4Ω and 8Ω. These amps can also be bridged to supply up to 400 watts into 4Ω and 8Ω, and up to 350 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 efficient, allowing them to be convection cooled and are ENERGY STAR qualified with quiet auto-ramp standby functionality. The SPA Series are housed in an unobtrusive black painted 1/2 RU chassis with unique mounting hardware enabling rack, table and wall mounting capabilities.

#### SPA2-60 & SPA4-60

The SPA2-60 two channel amplifier and SPA4-60 four channel amplifier both deliver 60 watts rms per channel into 4 or 8 ohms; the channels can also be bridged providing up to 200 watts rms into 4 or 8 ohms per channel pair. The bridged channels can be switched into 70V or 100V direct drive mode providing up to 250 watts rms into a 70V or 100V output. An 80Hz highpass filter is engaged when in 70V or 100V mode ensuring that distributed loudspeaker transformers are not overdriven and saturated by too much low frequency content.

#### SPA2-200

For higher power the SPA2-200 two channel amplifier delivers up to 200 watts rms per channel into 4 or 8 ohms; the two channels can also be bridged providing up to 400 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 350 watts rms into a mono 70V or 100V output. Like the other SPA models, an 80Hz highpass filter is engaged when in 70V or 100V mode.

#### SPA4-100

The SPA4-100 four channel amplifier delivers 100 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. The SPA4-100 bridged pair channels can be switched into 70V or 100V direct drive mode providing up to 350 watts rms into a 70V or 100V output; when in 70V or 100V mode the 80Hz highpass filter is automatically engaged.

#### Efficient Amplifier with Auto-Ramp

The SPA Series amplifiers utilize a highly efficient class-D design that conserves energy to reduce operational costs and requires no active cooling. They are ENERGY STAR qualified with auto-ramp circuitry that seamlessly transitions to/from Standby with no audible pops.

#### 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.

#### Protection, Control and Mounting

The SPA Series provide rms and thermal limiting as well as over-current and short-circuit protection so you can employ them with confidence. They also come with multiple mounting options. Every SPA Series 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 Series can also be mounted in plenum spaces when used with the Plenum Kit accessory.

# SPA Series

	SPA2-60	SPA4-60	SPA2-200	SPA4-100
<b>Channels</b>	2	4	2	4
<b>Stereo Mode</b> (all channels driven)				
8Ω	60 W	60 W	200 W	100 W
4Ω	60 W	60 W	200 W	100 W
<b>Bridged Outputs</b> (per bridged output pair)				
8Ω & 4Ω	200 W	200 W	400 W	200W
70V	250 W	250 W	350 W	350 W*
100V	250 W	250 W	350 W	350 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			
<b>Input Connectors</b>	3.5 mm Euro, 5 position (green)		3.5 mm Euro, 10 position (green)	
<b>Remote Connectors</b>	3.5 mm Euro, 5 position (black)		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)			
<b>Net Weight</b>	3.5 lb (1.1 kg)		4.0 lb (1.4 kg)	
<b>Shipping Weight</b>	6 lb (2.3 kg)		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			

Specifications subject to change without notice.  
\*Peak Power – dependent on other channel loads.

