



SPA 2120/2240

SINEWAVE POWER AMPLIFIERS



There are two types of power amplifier units in the SPA-PAVA product range. The overall power rating is 2 x 120 or 2 x 240 watts. The power amplifiers can be set to 100V, 70V and 8ohm outputs. They have short-to-ground, short-circuit detection and line-impedance surveillance up to 5% deviation using the DIVA8 and IDA8 range of products for loudspeaker-line surveillance.

They support both single-spur and redundant cabling (A/B). The amplifiers have a changeover facility for spare power amplifier switching. Both features are facilitated by the DIVA8 and IDA8 controllers and slaves. The amplifiers have a 24VDC back-up supply input.

Functions

The power amplifiers receive line-level input signals from the DIVA8 and IDA8 controllers and slaves. The display shows the VU-meter reading, when the EN54-16 default switch is inhibited.

MAIN CHARACTERISTICS

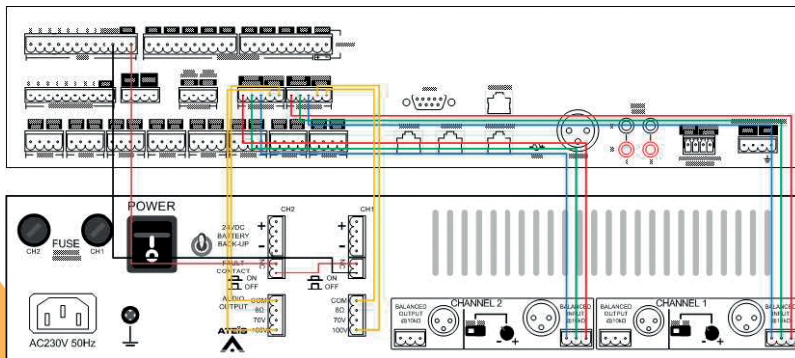
- 2 audio outputs (selection from 100V / 70V / 8ohm outputs)
- Fault reporting outputs
- Two audio inputs with gain-set
- Advanced audio processing for each amplifier channel using DIVA8 or IDA8 controllers and slaves
- Amplifier supervision and spare amplifier switching using DIVA8 or IDA8 controllers and slaves
- Loudspeaker line and loudspeaker supervision using DIVA8 or IDA8 controllers and slaves

CONTROLS AND INDICATORS

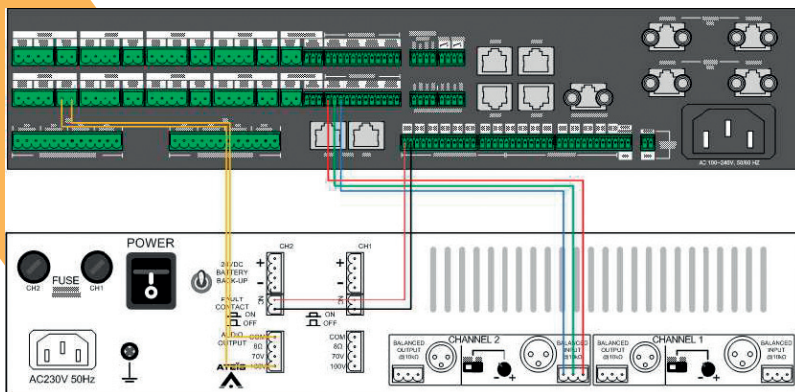
- LED VU metering
- Status indicators for: Overload, Temperature control, Battery and Mains

INTERCONNECTIONS

- Rear
- Rotary volume control
- Mains switch
- Mains input
- Battery backup input
- Two line inputs
- 100V, 70V, and 8ohm outputs (for each amplifier channel)



▲ DIVA8



▲ IDA8 8



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CERTIFICATIONS AND APPROVALS

Region Certifications

Europe	CE	CE - 0359 (Intertek)
	Immunity	according to EN50103-4
	PAVA	EN54-16 certified 2012

PARTS INCLUDED

Quantities	Components
1	SPA 2xxx Sinewave Power Amplifier
1	Power cord
1	Set of mounting brackets for 19" rack
1	Set of connectors
1	Set of feet

TECHNICAL SPECIFICATIONS

Electrical

Mains power supply

Voltage 230VAC $\pm 10\%$, 50/60Hz

Power consumption** standby - idle* - Pmax

SPA 2120 28W - 150W - 322W

SPA 2240 64W - 287W - 655W

* Idle: Measured with 10 Volt surveillance tone on the output.

** (Total Mains-power consumption)

Battery power supply

Voltage 21-28VDC

Power consumption** standby - idle* - Imax

SPA 2120 0.25A - 2.9A - 6.4A

SPA 2240 0.30A - 5.47A - 12.3A

** (Per ch. @ 28VDC)

*(Alarm cycle + 10V pilot-tone @ 28VDC)

Line inputs	2 x (One per channel)
Connector (electronically balanced)	3-pin XLR and 3-pin phoenix
Frequency response	+/-3dB @ 40Hz and 20kHz
S/N	>90dBA
THD	< 1% @ 1kHz
Input range	-6dBV to 6dBV / 770mV
Input impedance	22kohm

Loudspeakers outputs	SPA2120
Rated load resistance	100ohm (100V); 50ohm (70V)
Rated load capacitance	60nF (100V); 125nF (70V)
Rated output power (per channel)	120W (cont. at 40°C)

Loudspeakers outputs	SPA2240
Rated load resistance	40ohm (100V); 20ohm (70V)
Rated load capacitance	125nF (100V); 250nF (70V)
Rated output power (per channel)	240W (cont. at 40°C)

Frequency response	40Hz to 20kHz (± 3 dB)
S/N	>90dB (no pilot tone)
Crosstalk	<80dB at nominal load for 1kHz
Distortion	<1% (@ 1kHz) @ -10dB of rated output

Mechanical

Dimensions (H x W x D)	
for tabletop use, with feet	92 x 440 x 305mm (3.6 x 17.3 x 12in)
for 19" rack use, with brackets	88 x 483 x 305mm (3.5 x 19 x 12in)
19" 'in-front' brackets	40mm (1.6in)
Weight	
SPA 2120	12.3kg (27.1lb)
SPA 2240	18.5kg (40.8lb)
Mounting	Standalone or 19"-rackmount
Color	RAL7016

Environmental

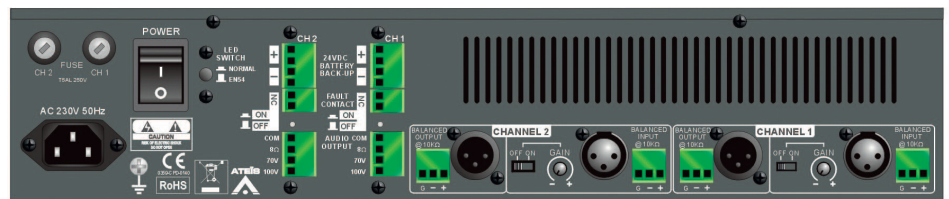
Operating temperature	-5°C to +55°C (+23°F to +131°F)
Storage temperature	-40°C to +70°C (-40°F to +158°F)
Relative humidity	15% to 90%
Air pressure	600 to 1100hPa

Ordering informations

SPA 2120

SPA 2240

Manufacturer reserves the right to alter specifications without notice



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