

Grey Series

Professional Power Amplifier

SA 400X

"Excellent Price to Performance Ratio!"

The SA 400X are delivered in an attractive grey finish. Two large handles and a modest weight, only 15 kg (33 lb), make these amplifiers extremely easy to handle.

The amplifier has two output stages each capable of delivering over 200 W RMS into a 4 Ω load (both channels driven).

Two large aluminium heat sinks at each side of the amplifier exchange the dissipated heat to the environment by so called "convection" cooling. So, working without a fan, the SA 400X is almost free of maintenance and perfect for applications that require low ambient noise.

Each channel is equipped with a 21 step conductive plastic potentiometer for accurate level settings.

The ground lift switch at the rear side of the amplifier can be used to solve any grounding problem.

Connections

For the in- and output connections, the amplifier is fitted with four Neutrik connectors.

Both inputs are balanced with pin 2 as non inverting and pin 3 as inverting input. By short-circuiting pin 3 to ground (pin 1), the input can be used unbalanced.

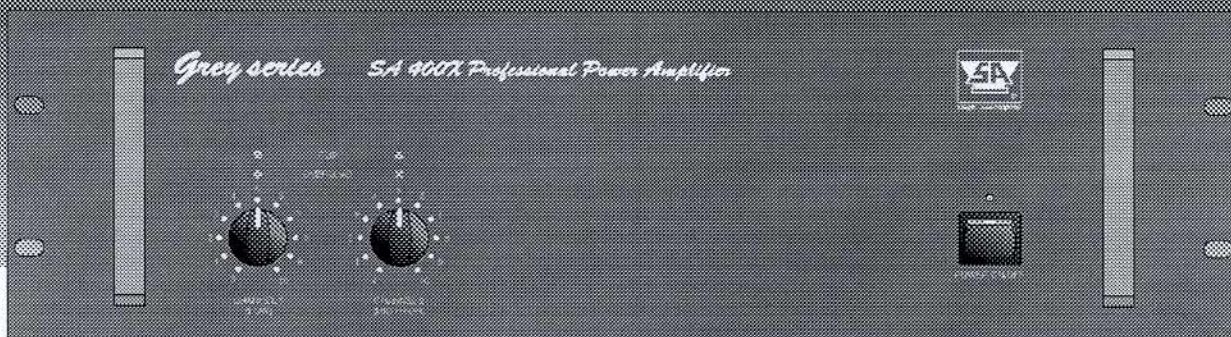
The outputs are connected to the new standard for professional loudspeaker applications, the 4 pole Speakon connectors.

Featuring

- Excellent sonic performance; very low noise and distortion level;
- No fan; perfect for applications that require low ambient noise;
- Output power and built in X-over optimised to the Grey series loudspeaker cabinets ;
- Protected against DC, high temperature and short-circuiting.



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The SA 400X power amplifier: excellent sonic performance combined with all needed protections.

Protections

Like all other Stage Accompany amplifiers, the SA 400X is protected against all possible situations that can harm either amplifier or loudspeakers.

Each amplifier channel is individually protected against over-temperature, so in case of overheatment of channel 1, channel 2 stays functioning normally.

lower than 4 Ω or the output is short-circuited. After detection, the output is disconnected and re-connected after 5 s. When the problem is still present, the output is disconnected again until the problem is solved.

The output is also scanned for DC voltages. The output of the amplifier is disconnected immediately when such a voltage occurs.

All faulty connections are displayed on the front by two "overload" LEDs. Two other LEDs signalise clipping of the output stages.

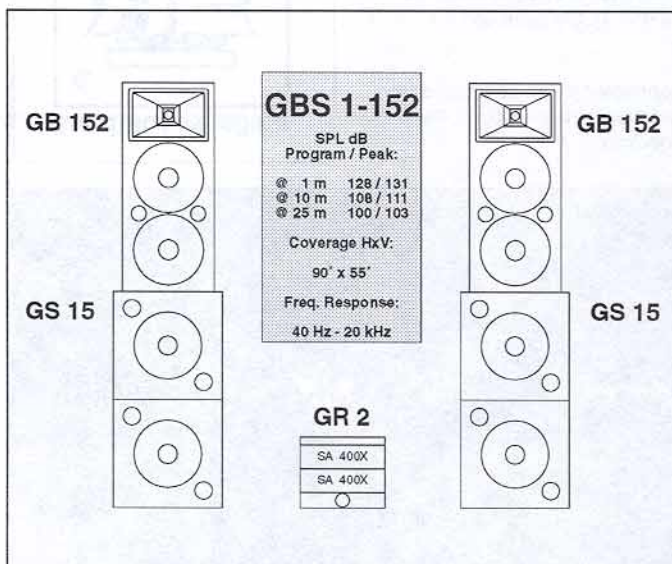
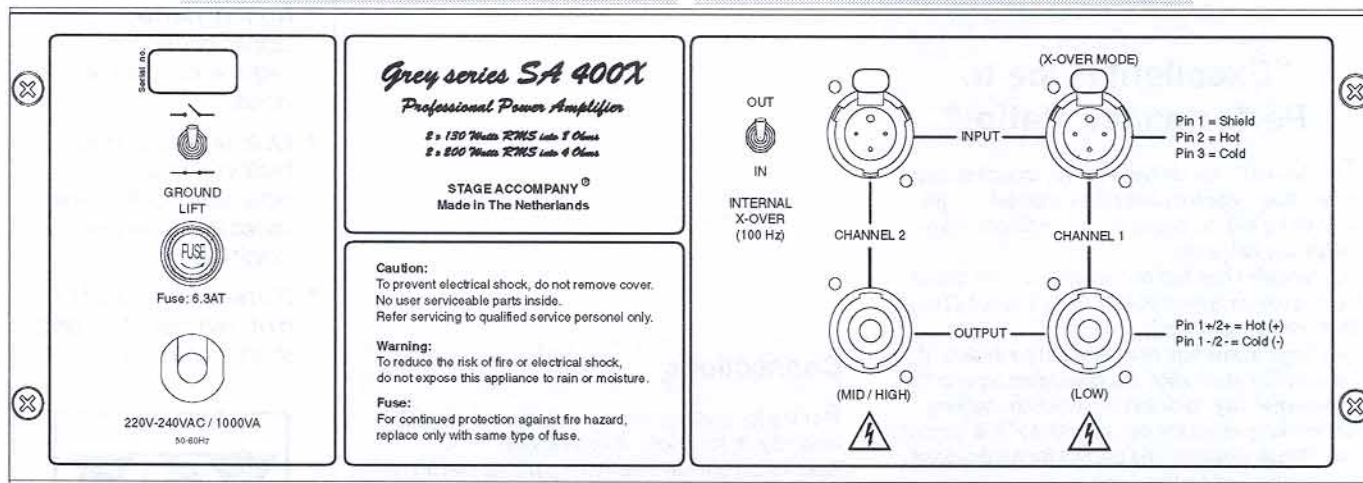
All these features and protections make this amplifier unbeatable in its class.

The SA 400X is fitted with a selectable internal electronic crossover with a fixed cut-off frequency of 100 Hz.

With this filter switched on, channel 1 of the SA 400X can be used to feed a sub woofer like the GS 15 (S). The other channel can be used to feed a mid high cabinet like the GB 12, GB 15 or GB 152.

The low section of the filter consists of a high pass at 40 Hz with a filter slope of 12 dB/oct, and a low pass at 100 Hz with a filter slope of 12 dB/oct. The mid/high section consists of a high pass at 100 Hz with a filter slope of 12 dB/oct.

Rear view of the SA 400X.



An application with the SA 400X in crossover mode. Ask your dealer for the GR 2, GS 15 and GB 152 information.



stage company

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Technical Specifications SA 400X

Input:	+ 6 dBu (reference: 0 dBu = 0.775 V) (200 W into 4 Ω)
Maximum input level:	+ 20 dBu
Input impedance:	20 k Ω each leg (20 k Ω unbalanced)
CMRR:	> 40 dB, @ 20 Hz - 20 kHz
Frequency response:	10 Hz - 20 kHz, -0.3 dB @ 100 W into 8 Ω 10 Hz - 70 kHz, -3 dB @ 100 W into 8 Ω
THD:	< 0.1 %, @ 20 Hz - 20 kHz, $\geq 4 \Omega$ load at all powers, 10 % below clipping level < 0.02 %, @ 1 kHz, 100 W into 8 Ω < 0.05 %, @ 20 kHz, 100 W into 8 Ω < 0.01 %, @ 1 kHz, 1 W into 8 Ω
IMD:	< 0.05 %, @ 200 Hz - 20 kHz F1 = 70 Hz, 4:1, 100 W into 8 Ω
Signal to noise ratio:	100 dB
Slew rate:	20 V/ μ s
Damping factor:	> 100
Output power:	2 x 130 W RMS into 8 Ω 2 x 200 W RMS into 4 Ω
Filter low:	high pass: 40 Hz / 12 dB/oct Butterworth low pass: 100 Hz / 12 dB/oct Bessel
mid/high:	high pass: 100 Hz / 12 dB/oct Bessel
Mains voltage:	stated at rear of amplifier
Power consumption:	"standby": 100 VA at maximum output power: 1,000 VA
Weight:	15 kg (33 lb)
Housing:	19 in rack mount 3 U high, 13.5 in deep
Physical dimensions:	133 X 482 X 340 mm (h x w x d) (5.2 x 19 x 13.4 in)

Stage Company reserves the right to alter specifications without prior notice