

SynergySeries

Multi-Channel Power Amplifiers

Multi-channel power amplifiers have become a very popular item for today's contractors. Whether the application be a multi-zone bar, club or museum, many audio and A/V integrators, as well as production companies, enjoy the convenience that a compact multi-channel power amplifier has to offer.

In addition to high-end performance and reliability, the Synergy multi-channel range offer many smart features including a Low-Pass Filter (defeatable) on selected outputs including bridged outputs. This enables the Synergy multi-channel range to drive subwoofers without the need for an external crossover.

From an engineering design standpoint, multi-channel power amplifiers offer many challenges and need to be meticulously designed and tested. Heat dissipation, board layout and component quality must be maximized to ensure a first class result.

The Australian Monitor Synergy Series meets these challenges and goes beyond the needs of almost any demanding installation and at a price most can afford.

SY4200 (4 x 200w @ 4 ohms)



SY6125 (6 x 125w @ 4 ohms)



SY6125T (6 x 70v/100v transformer pack for SY6125)



SynergySeries

Specifications

SY4200

Output power per channel at 4 ohms	200W
Output power per channel at 8 ohms	132W
Output power in bridge mode at 8 ohms	400W (channels C+D)
Frequency Response	15Hz-60kHz +/-3dB
Distortion	<0.03%
Input Sensitivity	1Vrms
Voltage Gain	28.3
Slew Rate	>40V/usec
Damping Factor	>400:1
Signal to Noise	97dB
Input Impedance	20kohm
Input clipping	+20dBV
Cooling	Front to Back
Amplifier Indicators	Power, Status(Signal/Clip), Overload, Thermal, Fault
Amplifier Controls	Volume, Ground Lift, Bridge Switch, Low Pass Filter, Limiter
Amplifier Protection	Current Limiting, DC Protection, mains fuse, DC rail fuses, Slow Start, Thermal Cutout
Low Pass Filter	125Hz 18dB/oct (channel C)
Dimensions	87x482x400 HxWxD mm
Net weight	12kg
Shipping weight	14kg
Shipping dimensions	210x540x470 HxWxD mm

SY6125

Output power per channel at 4 ohms	125W
Output power per channel at 8 ohms	85W
Output power in bridge mode at 8 ohms	250W (channels B+C, D+E)
Frequency Response	15Hz-80kHz, +/-3dB
Distortion	<0.03%
Input Sensitivity	1Vrms
Voltage Gain	22.3
Slew Rate	>40V/usec
Damping Factor	>250:1
Signal to Noise	97dB
Input Impedance	20kohm
Input clipping	+20dBV
Cooling	Front to Back
Amplifier Indicators	Power, Status(Signal/Clip), Overload, Thermal, Fault
Amplifier Controls	Volume, Ground Lift
Amplifier Protection	Current Limiting, DC Protection, mains fuse, DC rail fuses, Slow Start, Thermal Cutout
Low Pass Filter frequency and slope	125Hz 18dB/oct (channels B+E)
Net weight	15kg
Shipping weight	17kg
Dimensions	87x482x450 HxWxD mm
Shipping dimensions	210x550x550 HxWxD mm

SY6125 with Optional SY6125T

Output power per channel at 100v line	125W
Output power per channel at 70v line	125W
Output power per channel at 8 ohms (transformer isolated)	125W
SY6125T Net weight	20kg
SY6125T Shipping weight	22kg
SY6125T Dimensions	87x482x400 HxWxD mm
SY6125T Shipping dimensions	210x540x470 HxWxD mm

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Features include

- Custom designed, 2RU heavy duty steel chassis.
- Symmetrical layout - even weight distribution.
- High current power supply.
- High efficiency toroidal mains transformer.
- Binding post outputs.
- Balanced inputs and buffered attenuators.
- 1 Watt output indication (2.828 volts).
- 1 dB below output clip indication.
- Efficient front to back cooling.
- Dual, twin speed axial fans.
- Multi-role output fault indication.
- Front carry handles.
- Rear rack mount ears.
- Signal ground lift switch.
- Multi-channel or bridged operation.
- Built in limiter circuit.
- High-quality, close-tolerance components.

The Synergy Series also feature many levels of protection to ensure a reliable and trouble-free installation.

- Suppression of inrush current at mains turn-on.
- Input muting at turn-on.
- Input overvoltage protection.
- Radio-frequency interference suppression.
- Short-circuit protection and indication.
- High overload mains fuse.
- Internal, independent DC supply rail fuses.

Synergy SY4200

The Synergy SY4200 is a quad power amplifier ideal for bar, boardrooms and other multi-channel applications. Features include:

- 4 x 200 watts @ 4 ohms.
- 4 x 132 watts @ 8 ohms.
- 2 RU Chassis.
- On board limiters individually switchable per amp.
- Channels A & B, and Channels C & D bridgeable to deliver 400 watts @ 8 ohms.
- Low pass filter individually switchable to channel C (C & D when bridged).

Synergy SY6125

The Synergy SY6125 is a six channel power amplifier, ideal for bars, hotels, multi-room systems and more. The SY6125 features:

- 6 x 125 watts @ 4 ohm.
- 6 x 85 watts @ 8 ohms.
- 2 RU chassis.
- On board limiters individually switchable per amp channel.
- Channels B & C, and Channels D & E bridgeable to deliver 250 watts @ 8 ohms.
- Low pass filters (125Hz for subwoofers) individually switchable to channel B (B & C when bridged) & channel E (D & E when bridged).
- Optional SY6125T transformer pack available for 6 x 125 watts @ 70/100 volt line or transformer isolated 8 ohms.

Synergy SY6125T (use with the SY6125)

The Synergy SY6125T is an optional transformer pack for the SY6125. Featuring the same aesthetics as the SY6125 and also mounted in a 2RU chassis, the SY6125T includes six high quality toroidal transformers for 70v or 100v line applications. The SY6125T in conjunction with the SY6125 features:

- 6 x 125 watts @ 100 volt line.
- 6 x 125 watts @ 70 volt line.
- 6 x 125 watts @ 8 ohms (transformer isolated).
- 2 RU chassis.

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