CAP412

Quad-channel power amplifier 4 x 120W 100V

Highlights:

- Lightweight class-D amplifier
- Advanced protection circuit
- XLR input & linkthrough connections with gain control & HPF switch
- Terminal block output connections
- High-pass filter switch

Product information:

The CAP412 is a professional four channel 100V power amplifier which is capable of providing 120 Watt to each of the four separate output channels. This creates a great flexibility and new possibilities for installed multi-zone audio distribution systems. It is designed as a no-nonsense amplifier with only the necessary controls and connections which creates great simplicity in use and installation. Every output channel contains different power taps to be used in 100 Volt, 70 Volt and even 4 Ohm low impedance applications and the input signal connections are performed using balanced XLR connectors, allowing link through to other amplifiers. Besides all the desired connection possibilities, the CAP412 also offers a gain control potentiometer and a high-pass filter switch (400Hz) on the back of the unit. A built-in multipurpose protection circuit protects against DC malfunction, short circuit, overheating, overload, and limits the signal when necessary. This all is built into a double rack space, steel 19" housing.

Applications:

- Retail
- Public facilities
- Corporate spaces
- Clubs, bars, restaurants

System specifications:

RMS Power		4 x 120 W
Frequency	Response (± 3 dB)	50 Hz - 22 kHz
Signal / Noise		> 100 dB
THD+N (@ 1 kHz)		< 0.3% (1/2 Rated Power)
Crosstalk (@ 1 kHz)		< 80 dB
Technology		Class-D
Power	Supply	Switching mode
	Source	100 ~ 240 V AC / 50 ~ 60 Hz
Inputs	Sensitivity (1W/1m)	-0.5 dB ~ 10.5 dB
	Impedance	10 kΩ balanced
	Connector	XLR female with Male Linkthrough
Outputs	Voltage / Impedance	100 V / 83 Ω
		70 V / 42 Ω
		4 Ω
	Connector	4-pin Euro Terminal Block (Pitch - 5.08 mm)
Common mode rejection ratio		70 dB
Protection		DC Short circuit
		Over heating
		Over load
		Signal limiting
Cooling		Temperature controlled FAN
Operating temperature		0° ~ 40° @ 95% Humidity

Product Features:

Dimensions	482 x 88 x 420 mm (W x H x D)
Weight	14.800 kg
Mounting	19"
Unit height	2 HE
Construction	Steel
Colours	Black

Architects' and Engineers' Specifications:

The Amplifier shall be a constant voltage 100 Volt type, containing four independant controllable amplifier channels with an output power of 4 x 120 Watt. The amplifier shall be constructed using Class-D Amplifier technology and powered by a switching power supply. Each channel shall have integrated circuitry to protect against short-circuits or mismatched loads and over-heating. The operating temperature for each channel shall be continuously monitored and a speed-controlled fan will keep it within the operating range while minimising the acoustic noise. Additionally, the load shall be protected against DC faults and a clip limiter shall automatically reduce the input gain at onset of distortion.

The front panel shall contain an AC power switch accompanied by a blue power indicator LED and channel operation indicator LED's. Two green signal LED's indicating the presence of an input signal and it's level exceeding the -20 dB level, a clip LED indicating the channel operation at maximum level and a protection LED indicating any fault detected shall be provided for each channel.

All connections shall be made on the rear panel of the unit. The signal input connections shall be balanced and performed using female XLR connectors with male XLR connectors allowing signal link through to other channels or amplifiers. A gain control potentiometer shall be provided to adjust the input sensitivity within a range of -0.5 dB to 10.5 dB, and a switch shall allow the enabling / disabling of a highpass filter with a roll off frequency of 400 Hz.

The output connections shall be performed using a 4-pin Terminal block connector with three different power taps for use with 100 Volt and 70 Volt constant voltage and 4 Ohm low impedance applications.

The amplifier shall operate on a 230~240 V AC / 50 Hz mains network and shall be equipped with a removable power cord having a standard shuko (CEE 7/7) AC plug. The connector on the amplifier chassis shall be a fused IEC C14 type.

The amplifier chassis shall be a two rackspace steel constructed 19" housing. Depth from mounting surface to rear supports shall be 420 mm and the weight shall not exceed 14.8 Kg.