

# Quad-channel Class-D amplifier 4 x 100W - crossover

#### Highlights:

- · Lightweight class-D amplifier
- · Energy-star certified
- · Standby energy saving mode
- · Convection cooled
- · Terminal block output connections
- · XLR input connections with crossover operation mode switch
- Integrated crossover



#### Product information:

This energy efficient stereo amplifier will automatically switch to a standby mode when no audio signals are detected (less than 1Watt power consumption in standby mode). Their weight and compact size makes these single rack space amplifiers ideal for both fixed and mobile installations. Their use of Class-D technology ensures excellent efficiency as well as outstanding sound quality. Thanks to the complete passively cooled entity only a minimal of maintenance is needed, while ensuring maximum reliability. The quad channel construction consists of four channels with the possibility to use two independent stereos. In combination with the integrated active crossover network, it offers a complete solution for compact stereo applications with a bass cabinet. Various specific functions and advanced circuitry guarantees an optimal protection against DC malfunctioning, short circuit, overheating and overload. Signal input connections are integrated with balanced XLR connectors. Outputs are connected using terminal block connectors.

## Applications:

- · Bars & Restaurants
- Education
- Corporate
- Clubs
- Events
- Retail

#### Certification:



# System specifications:

A S S Sereo   A S 50 W	RMS/AES power handling	@ 4 Ω Stereo		4 x 100 W
Frequency         Response (± 3 dB)         20 Hz - 20 kHz           Signal / Noise         > 90 dB           THO+N (@ 1 kHz)         < 0.1% (1/2 Rated Power)		@ 8 Ω Stereo		4 x 50 W
Signal / Noise         > 90 dB           THD+N (@ 1 kHz)         < 0.1% (1/2 Rated Power)		@ 8 Ω Bridge		2 x 200 W
THD+N (@ 1 kHz)       < 0.1% (1/2 Rated Power)	Frequency	Response (± 3 dB)		20 Hz - 20 kHz
Crosstalk (@ 1 kHz)         > 70 dB           Technology         Class-D           Power         Supply         Switching mode           Lone Consumption         100 ~ 240 V AC / 50 ~ 60 Hz           Long Consumption         188 W           Long Standby         0.8 Watt (30 min standby time)           Long Consumption         12 kΩ balanced           Long Connector         3-pin XLR female           Protection         DC Short circuit           Protection         Over heating           Cooling         Convection cooled           Cooling         Convection cooled           Operating temperature         0° ~ 40° @ 95% Humidity	Signal / Noise			> 90 dB
Technology         Class-D           Power         Supply         Switching mode           Location         100 ~ 240 V AC / 50 ~ 60 Hz           Location         188 W           Location         0.8 Watt (30 min standby time)           Inputs         Sensitivity         0 dB (1V RMS)           Impedance         12 kΩ balanced           Connector         3-pin XLR female           Protection         DC Short circuit           Over heating         Over load           Cover load         Signal limiting           Cooling         Convection cooled           Operating temperature         0° ~ 40° @ 95% Humidity	THD+N (@ 1 kHz)			< 0.1% (1/2 Rated Power)
PowerSupplySwitching modeLoo - 240 V AC / 50 ~ 60 Hz100 ~ 240 V AC / 50 ~ 60 HzLoo - 240 V AC / 50 ~ 60 Hz188 WLoo - 240 V AC / 50	Crosstalk (@ 1 kHz)			> 70 dB
Consumption 188 W  Standby 0.8 Watt (30 min standby time)  Inputs Sensitivity 0.4 (30 min standby time)  Impedance 12 kΩ balanced  Connector 3-pin XLR female  Protection DC Short circuit Over heating Over heating Cover load Signal limiting  Cooling Cooling Convection cooled  Operating temperature 0° ~ 40° @ 95% Humidity	Technology			Class-D
Consumption188 WInputsSensitivity0.8 Watt (30 min standby time)Impedance0 dB (1V RMS)Impedance12 kΩ balancedConnector3-pin XLR femaleProtectionDC Short circuitCover heatingOver loadCover loadSignal limitingCoolingConvection cooledOperating temperature0° ~ 40° @ 95% Humidity	Power	Supply		Switching mode
Standby 0.8 Watt (30 min standby time)  Inputs Sensitivity 0 dB (1V RMS)  Impedance 12 kΩ balanced  Connector 3-pin XLR female  Protection Cover heating  Over heating  Cooling  Cooling  Cooling  O° ~ 40° @ 95% Humidity				100 ~ 240 V AC / 50 ~ 60 Hz
InputsSensitivity0 dB (1V RMS)Impedance12 kΩ balancedConnector3-pin XLR femaleProtectionDC Short circuitCover heatingOver heatingColingSignal limitingCoperating temperatureConvection cooled		Consumption		188 W
Impedance12 kΩ balancedConnector3-pin XLR femaleProtectionDC Short circuitCover heatingOver loadColingSignal limitingCoperating temperatureConvection cooled				
Connector  Protection  Protection  Cover heating  Over load  Over load  Cooling  Cooling  Convection cooled  Operating temperature  One A00° @ 95% Humidity			Standby	0.8 Watt (30 min standby time)
Protection DC Short circuit  Over heating Over load  Cooling Coperating temperature  DC Short circuit Over heating Over load  Cover load Signal limiting Convection cooled  O° ~ 40° @ 95% Humidity	Inputs	Sensitivity	Standby	
Over heating Over load Over load Signal limiting Cooling Operating temperature Oo ~ 40° @ 95% Humidity	Inputs		Standby	0 dB (1V RMS)
Cooling Convection cooled Operating temperature Operating temperature Over load Signal limiting Convection cooled O° ~ 40° @ 95% Humidity	Inputs	Impedance	Standby	0 dB (1V RMS) 12 kΩ balanced
Signal limiting  Cooling  Convection cooled  Operating temperature  O° ~ 40° @ 95% Humidity		Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female
Cooling Convection cooled  Operating temperature Convection cooled  0° ~ 40° @ 95% Humidity		Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female  DC Short circuit
Operating temperature 0° ~ 40° @ 95% Humidity		Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female  DC Short circuit  Over heating
		Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female  DC Short circuit  Over heating  Over load
Outputs Connector 2-pin Euro Terminal Block (Pitch - 5.08 mm)	Protection	Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female  DC Short circuit  Over heating  Over load  Signal limiting
	Protection  Cooling	Impedance	Standby	0 dB (1V RMS)  12 kΩ balanced  3-pin XLR female  DC Short circuit  Over heating  Over load  Signal limiting  Convection cooled

### **Product Features:**

Dimensions	482 x 44 x 330 mm (W x H x D)
Weight	4.500 kg
Mounting	19"
Unit height	1 HE
Construction	Steel
Colours	Black

#### Shipping & Ordering:

Packaging	Cardboard box
Shipping volume	0.028 Cbm

#### Architects' and Engineers' Specifications:

The amplifier must be an energy efficient and compact quad channel Class-D power amplifier, containing four independent controllable amplifier channels with an output power of 4 x 100 Watt. Bridging the outputs two-by-two shall be possible, merging their power to 200 Watt while an integrated (selectable) active crossover network shall be implemented to apply high-pass and low-pass filters to the channels, creating a sub / top configuration for a stereo system with bass cabinet.

The construction must be transformerless 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 amplifier must be convection cooled so that maintenance can be kept to a strict minimum. An automatic signal detection circuit shall be implemented, switching the amplifier to standby mode when no input signal is detected. The energy efficiency levels shall comply with energy-star and other international energy and environmental requirement standards.

The front panel shall contain an AC power switch accompanied by a blue power indicator LED and channel operation indicator LED's. A green signal LED's indicates 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 XLR connectors. The output connections must be fitted with terminal block connectors.

The amplifier shall operate on a 100-240V AC - 50/60 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 single rackspace steel constructed 19" housing. Depth from mounting surface to rear supports shall be 330 mm and the weight shall not exceed 4.5 Kg.

