

# Modular Digital Power Amplifiers

## MDA Series



### Description

The MDA Series are modular high performance amplifier for high quality audio systems and also for commercial and industrial use same as paging, background music, security and evacuation instructions, characterized by extreme flexibility.

Class D circuit topology and switching power supply produce high power level with very low distortion while maintaining efficiency levels of near 90%.

Innovative system ALC allows to control the maximum power without to exceed the audible distortions greater than 1%.

Modular structure allows many channel in a space-saving of 4U rack height.

By offering an High efficiency and compact size combination , this series presents good performance and cost-saving advantages.

They provide low impedance and constant-voltage outputs (50V, 70V and 100V).

These low-cost units provide all necessary features in a simple building-block format.

Metal framing is suitable to be assembly in 19" rack.

### Front panel Indicators

(each module)

**Power Indicator:** Blue LED indicates power on.

**Protection Indicator:** Yellow LED indicates protection status.

**Output Signal Presence Indicator:** Green LED illuminates when output signal level exceeds 40dB below full power.

**Clip Indicator:** Red LED illuminates when ALC is active.

### Rear panel Controls and Connectors

(each module)

**AC Power Inlet:** Detachable IEC and Power on switch.

**Amp Output Connectors:** Phoenix-type 6-position terminal with -4ohm, +4ohm, COM, 50V, 70V and 100V. Accepts up to 12 AWG terminals.

**Amp Input Connectors:** XLR and 3-pin Phoenix-type, high impedance electronically balanced.

**Volume Control:** Potentiometer without knob.

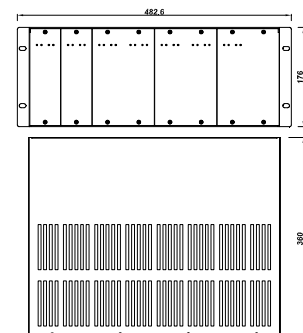
### Features

- Flexibility and compact design in 4U rack space
- Low weight High efficiency
- Switching power supply
- Output stage based on Class D topology
- Efficient convection cooling
- Low mains current draw
- Full protection
- Innovative power control system ALC
- Selectable output for low-Z or hi-Z
- Transformer balanced output
- Electronically balanced input
- Phoenix-type and XLR connector

### Applications

- Offices
- Supermarkets
- Restaurants
- Motorway restaurants
- Auditorium
- Industries
- Gyms
- Places of worship
- Hotels
- Court halls
- Audio conferences
- Schools
- Airports

### Dimensions



## Specifications

MODEL	MDA120	MDA240	MDA2240	MDA500
Output power @1KHz - 1%THD	120W	240W	2x240W	500W
Output Voltage - Impedance	50-70-100V / 4ohm	50-70-100V / 4ohm	50-70-100V / 4ohm	50-70-100V / 8ohm
Output circuitry	Class D	Class D	Class D	Class D
Power Supply circuitry	SMPS	SMPS	SMPS	SMPS
Frequency Response @1W -3dB	70-15000Hz	70-15000Hz	70-15000Hz	70-15000Hz
THD @ 1KHz at rated power	< 1%	< 1%	< 1%	< 1%
SNR (ref. to rated power)	> 90dB	> 90dB	> 90dB	> 90dB
Input Sensitivity	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)	0dBu (775mV)
Input Impedance bal	47Kohm	47Kohm	47Kohm	47Kohm
Power Supply Protections	Overvoltage AC, OverLoad, Short Circuit			
Amplifier Protections	Thermal, OverLoad, Short Circuit, DC-fault, Turn ON delay			
Front Indicators	Power On: Blue LED / Protection: Yellow LED / Signal -40dB: Green LED / Clip: Red LED			
Controls	Rear: AC switch, volume gain pot			
Connectors	Input: XLR, 3-pin Phoenix-type / Output: 6-pin Phoenix-type / Power supply: IEC			
Power Requirements	230Vac ±10%	230Vac ±10%	230Vac ±10%	230Vac ±10%
Current Consumption (max power)	0.7A	1.3A	2.6A	2.6A
Current Consumption (1/8 power pink noise)	0.3A	0.5A	1A	1A
Idle Current Consumption	60mA	60mA	0.15A	0.15A
Cooling	Convection	Convection	Convection	Convection
Operating Temperature	-5°C to +40°C	-5°C to +40°C	-5°C to +40°C	-5°C to +40°C
Dimensions (HxWxD) mm	176x55x360	176x55x360	176x110x360	176x110x360
Weight – Net Kg	3.1	4	6.6	6.6
Approvals	CE, EN60065			

