

MP-PA42-GEN2

Class-D 60W Power Amplifier

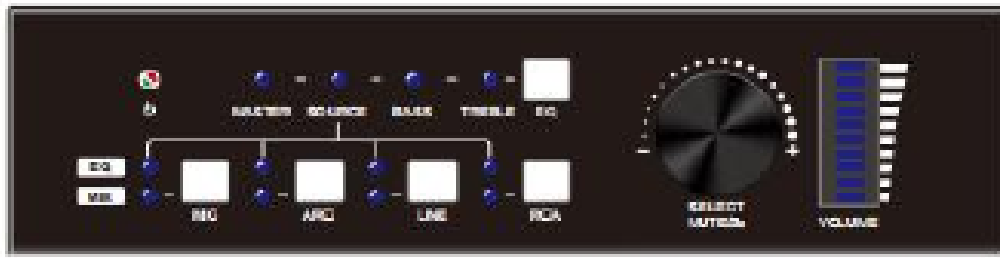


Figure 1

The MP-PA42-GEN2 is a Class-D amplifier supporting single-source and multi-source mixed audio inputs. It provides MIC, ARC, LINE and RCA inputs, with stereo or bridged speaker output and multiple control options.

Key Features

- 4 inputs: MIC (48V phantom power), ARC, LINE and RCA
- Stereo output up to 2×30W or bridged output up to 1×60W
- 4Ω / 8Ω fixed-impedance speaker output plus line out
- Supports audio mixing and built-in EQ adjustment
- Control via front-panel buttons, IR, RS232, TRG and TCP/IP Web-GUI
- Standard 1U rackmount design

Technical Specifications

Parameter	Specification
Audio Frequency Response (Master)	20Hz – 20kHz, ±3dB
Master SNR	>85dB, A-weighted
Master THD+N	<0.1% @ 1kHz
Master Crosstalk	< -80dB @ 1kHz
Audio Frequency Response (Line)	20Hz – 20kHz, ±1dB
Line SNR	>90dB, A-weighted
Line THD+N	<0.05% @ 1kHz
Line Crosstalk	< -85dB @ 1kHz
Stereo Output	2×30W @ 4Ω or 2×15W @ 8Ω
Bridge Output	1×60W @ 4Ω or 1×30W @ 8Ω
Power Input	DC 24V, 5A
Operating Temperature	-5°C to +55°C
Storage Temperature	-20°C to +70°C
Relative Humidity	0% – 80%
Standby Power Consumption	0.67W (Min.)
Dimensions (W × H × D)	176 × 44 × 120 mm
Net Weight	750 g

Interfaces & Control

Parameter	Specification
Inputs	MIC, HDMI ARC, balanced LINE, RCA

Parameter	Specification
Speaker Output	4/8Ω fixed-impedance; Stereo / Bridge mode
Line Out	Audio loop-through to another amplifier
Network	RJ45 TCP/IP with Web-GUI
Serial Control	RS232
Trigger	3–24V active high / 0–3V active low
Firmware	USB-C MCU upgrade
IR	3.5mm IR receiver connection; IR kit optional