Amplifier

DA12

DA12 is a 4 channels amplifier used with all APG loudspeakers ranges depending on the desired application.

DA12 includes signal processing, analog, AES3, Dante/AES67 inputs and outputs, and a bright 4.3" IPS display with capacitive touch.

The 4 channels offers high power and voltage, allowing for high SPL even with 8 or 16 Ω loads, and is capable of delivering a massive 4 x 3000 W output on 4 Ω loads.

The amplifier's power supply has been designed to operate anywhere in the world. An internal energy storage system allows the amplifier keep a consistent performance in the event of a drop in the quality of the electrical network to which the amplifier is connected.

The amplifier can be controlled with touch screen. Available functions includes preset recall, gain, delay, and muting functions.

DA12 can also be controlled remotely with ArmoniaPlus software.



DA12 Amplifier

Number of channels : 4

Output power @8Ω : 1800W per channel
Output power @4Ω : 2700W per channel
Output power @2Ω : 2000W per channel

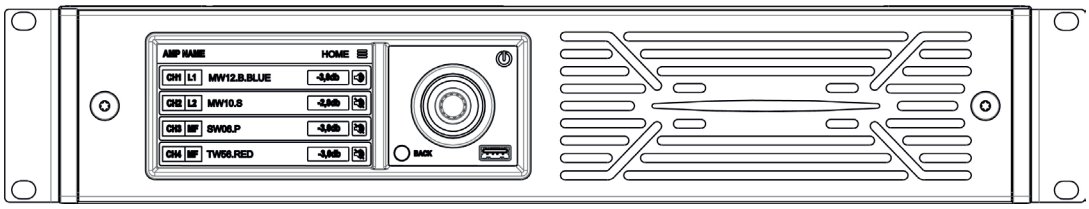
Output power @8Ω bridged : 5400W
Output power @4Ω bridged : 4000W

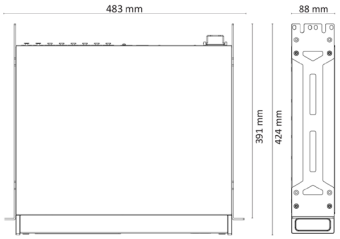
Inputs : Analog, Digital (AES3, Dante/AES67)
Remote : GPI or Ethernet

5 years warranty

APG

DA12
Technical Specifications





Channel Handling

Outputs	4 x Speakon NL4
	4 Dante/AES67 TX (from local input or DSP)
Inputs	
Analog	4 XLR female
	4 XLR male (LINK)
Digital AES3	2 XLR female (4 x audio channels)
	2 XLR male (LINK)
Digital Dante/AES67	2 XLR Ethercon (4 x audio channels)

Audio

Gain	32dB
Input sensitivty @ 8Ω	2.77 Vrms
S/N (20 Hz - 20 kHz @ 8Ω	110 Typ dB(A)
Max input level	24 dBu
Frequency response @ 8Ω load	20 Hz - 20 kHz +/- 1.0 dB
Crosstalk (1 kHz)	-75 dB typ.
Input impedance	20 kΩ Balanced
CMRR	65 dB typ.
THD+N (from 0.1W to Half Power)	<0.1% (typical <0.05%)
SMPTE IMD (from 0.1W to Half Power)	<0.1% (typical <0.05%)
Output impedance at 100 Hz	30mΩ

DSP

AD converters	24 Bit Tandem™ @ 48 kHz 125 dB-A Dynamic Range - 0.005 % THD+N
DA converters	24 Bit Tandem™ @ 48 kHz 117 dB-A Dynamic Range - 0.003 % THD+N
Sample rate converter	24 Bit @ 96 kHz 140 dB Dynamic Range - 0.0001 % THD+N
Internal precision	32 bit floating point
Latency	2.5 ms fixed latency architecture
Memory/Presets	50 amplifier snapshots, virtually unlimited speaker presets
Delay	2 s (input) + 100 ms (output) for time alignment
Equalizer	Raised-cosine, custom FIR, parametric IIR: peaking, hi/lo-shelving, all-pass, band-pass, band-stop, hi/lo-pass
Crossover	linear phase (FIR), Butterworth, Linkwitz-Riley, Bessel: 6 dB/oct to 48 dB/oct (IIR)
Limiters	TruePower™, RMS voltage, RMS current, Peak limiter
Damping control	Active DampingControl™ and LiveImpedance™ measurement

Display Specs

Resolution	480x272, 4.3" diagonal
Brightness	600 nit
Control	Multitouch capacitive, Rotary encoder 20 steps/turnwith pushbutton

Output Stage

per channel @ 8Ω (symmetrical)⁎	1800W
per channel @ 4Ω (symmetrical)⁎	2700W
per channel @ 2Ω (symmetrical)⁎	2000W
per channel @ 8Ω (asymmetrical)⁎⁎	1900W
per channel @ 4Ω (asymmetrical)⁎⁎	3000W
per channel @ 2Ω (asymmetrical)⁎⁎	2000W
@ 8Ω bridged	5400W
@ 4Ω bridged	4000W
Maximum unclipped output voltage	$180V_{peak}$
Maximum output current	$>55A_{peak}$

⁎All channels driven and loaded symmetrically

⁎⁎ All channels driven, but channels 2 and 4 at -6dB

Power & Thermal

			DA12
@ 100 V	Standby	Power	16 W
	Idle	Power	42 W
	1/8 Power @4Ω	Power	1570 W⁎
		Current Draw	16.5 A_{rms}
		Thermal Loss	1670 BTU/h
@ 240 V	Standby	Power	17 W
	Idle	Power	42 W
	1/8 Power @4Ω	Power	1940 W
		Current Draw	8.9 A_{rms}
		Thermal Loss	2000 BTU/h

Power supply	Universal regulated switch mode with PFC
Nominal voltage (+/-10%)	100-240 VAC @ 50-60Hz
Operating Voltage	90-264 VAC @ 50/60 Hz
AC Mains connector	IEC C20 inlet (20 A max)

⁎ Limited by AC current to 1/10 Rated Power

Constructions

Dimensions	483 x 381 x 88.9 mm (19 x 15 x 3.5 in)
Weight	11.3 kg

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