

Y400

400 W PA Amplifier Mainframe



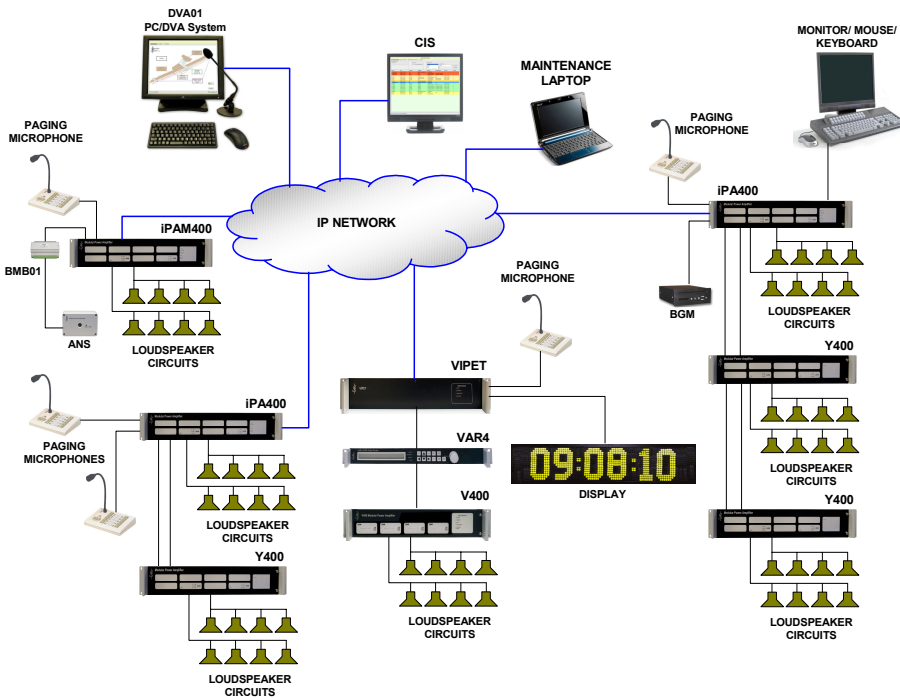
(Y400 fitted with 2 x MX200 Amplifier Modules for illustrative purposes)



The Y400 PA Amplifier Mainframe is a 2U rack mount unit which provides modular Public Address amplification. The mainframe is designed to operate with a power supply of 230 V AC mains.

Amplification is provided by high efficiency and low quiescent current modular amplifiers using ASL proprietary Adaptive Class D technology. The Y400 can be fitted with the ASL MX series 100 V PA/VA amplifier modules in any of the following standard combinations: 4 x 100 W, 2 x 200 W, 1 x 400 W, or 1 x 200 W + 2 x 100 W. The amplifier modules are inserted from the front of the mainframe, and are protected by a removable front panel.

The Y400 is designed to be used as an addition to an iPA400 based Public Address system where more than 400 W of power is required, or to be used in any other Public Address system where the amplification and loudspeaker circuits do not need to be monitored.



- ANS: ASL Ambient Noise Sensor
- BGM: BackGround Music
- BMB01: ASL Remote I/O Unit
- CIS: Customer Information System
- DVA01: ASL PC/DVA System
- iPA400: ASL Intelligent 400 W PA Amplifier Mainframe
- iPAM400: ASL Intelligent 400 W PA Amplifier Mainframe with Amplifier and Loudspeaker Line Monitoring
- V400: ASL Voice Alarm and Public Address Amplifier Mainframe
- VAR4: ASL DSP Router (4x4)
- VIPET: ASL IP Audio Controller

For further details, and for information on other products, please visit www.asl-control.co.uk.

SPECIFICATION

Y400

General¹

Supply Voltage.....	230 V +/-10% RMS 50Hz AC / IEC320 inlet European standard
Inrush Current (worst case)	24.2 A
Maximum AC Power Consumption	745 VA (mainframe fully configured and all amplifier modules delivering 100 V 1 kHz sinewave into rated resistive loads)
Internal Fuses	T25A 1¼" fuses
Standard Configurations ²	1 x MX400 400 W Amplifier Module 2 x MX200 200 W Amplifier Module 4 x MX100 100 W Amplifier Module 1 x 200 W + 2 x 100 W Amplifier Modules (no standby amplifier provision)
Format.....	2U 19-inch rack mounting metal frame
Colour.....	black front panel with silver annotation
Temperature Range (storage and operating)	-5°C to +50°C
Humidity Range	0% to 93% non-condensing
Ingress Protection.....	IP20
Vibration/Impact.....	EN60068-2-6/EN60068-2-75
Dimensions (H x W x D) (mm)	86 x 439 x 425 (excl. handles)
Weight	12 kg (frame only) 18.4 kg (max, frame fitted with 4 x MX100)

External Interfaces³

Audio Inputs	4 x balanced 0 dBu / 14 kΩ impedance (3-way pluggable Wago cage clamp terminal block)
100 V Line Outputs.....	able to drive single loudspeaker circuits (2-way pluggable Wago cage clamp terminal block)

MX100

Output Power	100 W @ 100 V RMS ¹
Output Voltage and Input Sensitivity	100 V RMS into 100 Ω load for 0 dBu 1 kHz input signal
Regulation.....	no load to full load, better than 1.5 dB
Efficiency.....	80%
Frequency Response.....	100 Hz – 18 kHz, ±3 dB
THD (@ 100 V RMS output, full load).....	<0.5% @ 1 kHz
Residual Noise	better than 80 dB (A-weighted) below full output
Dimensions (H x W x D) (mm)	79 x 79 x 273 (incl. connectors)
Weight	1.6 kg

MX200

Output Power	200 W @ 100 V RMS ¹
Output Voltage and Input Sensitivity	100 V RMS into 50 Ω load for 0 dBu 1 kHz input signal
Regulation.....	no load to full load, better than 1.5 dB
Efficiency.....	80%
Frequency Response.....	100 Hz – 18 kHz, ±3 dB
THD (@ 100 V RMS output, full load).....	<0.5% @ 1 kHz
Residual Noise	better than 80 dB (A-weighted) below full output
Dimensions (H x W x D) (mm).....	79 x 159 x 273 (incl. connectors)
Weight	2.7 kg

MX400

Output Power	400 W @ 100 V RMS ¹
Output Voltage and Input Sensitivity	100 V RMS into 25 Ω load for 0 dBu 1 kHz input signal
Regulation.....	no load to full load, better than 1.5 dB
Efficiency.....	80%
Frequency Response.....	100 Hz – 18 kHz, ±3 dB
THD (@ 100 V RMS output, full load).....	<0.5% @ 1 kHz
Residual Noise	better than 80 dB (A-weighted) below full output
Dimensions (H x W x D) (mm).....	79 x 316 x 273 (incl. connectors)
Weight	5.4 kg

¹ ASL amplifiers on 230 V mains power can produce full output, with normal programme material, into loads 25% greater than those specified. In these conditions, a MX100 will deliver full output with 125 W of load connected, a MX200 will deliver full output with 250 W of load connected, and a MX400 will deliver full output with 500 W of load connected.

² The mainframe is fully populated in the standard configurations. However the mainframe does not need to be fully populated with amplifiers, for example three MX100 amplifiers could be fitted, or a single MX200 amplifier.

³ All located on the rear panel of the Y400.



This equipment is designed and manufactured to conform to the following EC standards:

EMC: EN61000-6-4:2007, EN61000-6-2:2005, EN55103-1/E1:1996, EN55103-2/E5:1996,
EN50121-4:2006, ENV50204:1995

Safety: EN 60065:2002

Manufacturer

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