

V400 Amplifier Mainframe



DESCRIPTION

The V400 Amplifier Mainframe provides the housing, signal and data interconnection, monitoring electronics, and power supplies for the ASL range of power amplifier modules and their interface cards.

This mainframe can house any of the following four combinations of amplifier modules: 4 x 100 W, 2 x 200 W, 1 x 400 W, or 2 x 100 W + 1 x 200 W.

Amplifier modules are inserted from the front of the mainframe and are protected by a front panel chosen to suit the configuration of amplifier types. Interface cards (which may also serve line surveillance and standby amplifier switchover functions) are inserted from the rear of the mainframe to connect to the amplifier modules.

The mainframe is designed to operate with dual power supplies: 230 V AC mains supply and 24 V DC battery supply. The full 400 W power¹ is available right down to 21 V battery supply voltage.

The mainframe, its amplifiers and interface cards can be monitored and controlled by the ASL VAR Routers. Any faults occurring in the amplifier system will be reported, recorded, and displayed by the VAR Router.

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

¹ ASL amplifiers are specified to deliver their rated power at the lowest battery voltage (21 V). However, on 230 V mains power they can produce full output, with normal programme material, into loads 25% greater than those specified. In these conditions a fully populated V400 can deliver full output with 500 W of load connected.

SPECIFICATION

General

AC Supply Voltage	230 V +10, -6% RMS 50 Hz AC
In-Rush Current (worst case)	24.2 A
Maximum AC VA Rating (230 V)	745 VA
AC Supply Fuse Rating	T6.3 A H (use fuses to IEC 60127)
DC Supply Voltage	21 to 27.6 V (from nominal 24 V lead acid battery)
Maximum DC Current Consumption (21 V supply, modules delivering 100 V 1k Hz sinewave into rated resistive loads)	6.25 A per 1 x 100 W amplifier module 12.5 A per 1 x 200 W amplifier module 25 A per 1 x 400 W amplifier module
DC Supply Fuse Rating	F25A
Auxiliary DC Supply Output	24 V (nominal)
	(21 to 38 V depending on AC or DC supply, and battery condition)
Auxiliary DC Supply Output Fuse Rating	T1A
Internal Fuses	
F1, 2	T25A
F5	F100mA
Colour (front panel)	Black and silver

Dimensions and Weight

Dimensions (H x W x D)	85 mm x 435 mm x 410 mm
	2U height, 19" rack mounting
Weight (no amplifier modules or interface cards fitted)	12 kg

Environmental

Temperature (Storage and Operating)	-5 °C to +50 °C
Humidity Range	0% to 93% Non-condensing



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

EMC EN 55103-1 Environment E1, EN 55103-2 Environment E5

Safety EN60065

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