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A400

400 WATT AC/DC SLAVE AMPLIFIER



The A400 is a rugged systems amplifier intended for use in extensive systems requiring large blocks of power. It is ideally suited to BS.5839 and BS.7443 applications. At present the A400 is manufactured to order to meet individual requirements, based on a standard generalised specification but with optional facilities and variations.

As with all Mustang products, the finest electronic and mechanical components and classic engineering principles are utilised to ensure a long and maintenance-free life, and dramatic reduction in the long-term 'cost of ownership'.

BASIC SPECIFICATION

- 400W RMS continuous rating
- Robust MOSFET output stages
- Convection cooled by massive heatsink
- AC/DC powered
- Low AC/DC inrush current
- 3U rack mounting
- Generous power and output transformers provide effortless performance.
- 0dB unbalanced input with front gain control
- 100V line floating output
- Thermal cut-out with auto re-set
- Removable power block module
- Substantial steel and aluminium construction
- DC supply input polarity protection
- BS.5839 internal monitoring of power supplies

OPTIONS AND VARIATIONS

- AC only or DC only powering
- Integral loudspeaker line load surveillance and tone injection
- Surveillance display
- Front gain control or not
- Balanced/unbalanced input
- Connector types
- Frequency response tailoring
- Fascia and rear panel colours
- Bespoke printing detail
- Customer requested option
- Audio signal path integrity monitoring

A400 SLAVE AMPLIFIER

TECHNICAL SPECIFICATION

DATA SHEET DS83-01

Note that some of the options shown below are inter-dependent, or mutually exclusive

| | A.400 BASIC SPECIFICATION | OPTIONS |
|-------------------------------|--|--|
| Format | Slave amplifier | |
| Power output | 400W RMS Continuous sine wave rated | |
| Power supply | AC & DC DC automatically takes over during AC interruption and restores automatically | AC only DC only |
| Output matching | 100V balanced floating | Centre-tap 50V, 70V |
| Audio input | 0dB unbalanced, 22k load | Electronic balanced, transformer balanced. |
| User control | Power on-off; AC supply trip reset | Front gain control |
| Frequency response | -3dB @ 20Hz and 20kHz 100V output ref 1kHz; or to user specification | |
| S/N ratio | Better than 100dB >250Hz; 85dB <250Hz | |
| T.H.D | Better than 0.5% 100V output | |
| 100V line regulation | 0.8dB no load/max load | |
| Load surveillance | - | Selectable under/overload limits between 50 Watts and 400 Watts |
| Amplifier signal surveillance | - | Audio signal path failure output - logic sink output |
| Protection | Inherent MOSFET thermal protection Heatsink over-temperature shutdown (automatic reset) & display; 100°C - 85°C Excess AC supply drain - cutout AC & DC fuses | |
| PSU monitoring | AC fail: Volt-free contacts; DC fail: Volt-free contacts | |
| Mains supply voltage | 220/240V AC 50/60Hz; 205-255V limits | 110-120V |
| Mains consumption | Nominally 600VA fully driven, fully loaded; 20-25VA quiescent | |
| AC inrush current | 5A peak, 100mS | |
| DC supply voltage | 48 - 0 - 48V | |
| DC current consumption | 6.75A fully driven, fully loaded; 90mA-150mA quiescent depending upon options | |
| DC inrush current | 10A peak, 100mS | |
| Input connectors | Locking DIN 5pin 180 degree (supplied). Mustang Part No. 5-180 | XLR, jack |
| 100V Power output connections | Binding posts | XLR, jack, spring terminals, etc |
| Auxiliary connector | 15 pin D. Male | 9-15-25 pin D Male/female, etc |
| Mains connector | Standard 3 pin 6A IEC (supplied) | |
| DC supply connector | 3 pole 40A D connector | |
| AC supply fuse | 3.15A (T) 20mm HRC | As necessitated by AC supply |
| DC supply fuse | Two 10A (F) 20mm HRC | |
| Presentation | Silver anodised aluminium fascias; black legends | Black anodised fascias Powder coat colour or wet enamel Single or two colour legends Customer artwork |
| Weights & volume | 16kg net excluding variations/options: Shipping gross weight 17.5Kg; volume 0.057cu.M | |
| Dimensions (19" style) | 483 x 132 x 328 mm (WHD) excluding connectors. 3U fitting. Allow 40mm FMS for handles | |

QUALITY ASSURANCE

Guided by a policy of non-obsolescence, every part for the A400 range of amplification is carefully manufactured direct from raw materials to ensure total control of all aspects of quality and delivery. Every sub-assembly and finished amplifier is exhaustively and individually tested.

All procedures meet our internal Quality Assurance standards, which in turn are maintained to ISO.9002.

CONTACT

We will be pleased to receive enquiries regarding application of the A400 range, either by phone, fax, or email.

In the interests of continuous development, specifications are subject to change without notice.
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Electromagnetic compatibility (EMC) directive 89/336/EEC and amendment directive 92/31/EEC
This equipment has been designed and manufactured to the highest standards. If connected and operated as set out in this manual, there should be no Electromagnetic Compatibility problems. If any aspect of operation gives rise to concern, then please contact the manufacturer for advice.