



MUSTANG COMMUNICATIONS LTD

EASTFIELD INDUSTRIAL ESTATE, SCARBOROUGH, ENGLAND YO11 3UT

Telephone +44 (0) 1723 582555, FAX +44 (0) 1723 581673

Web: www.mustang.co.uk

email: service@mustang.co.uk

VA MIXER-AMPLIFIER RANGE

VA units form a versatile range of high-efficiency, robust, 200 Watt amplifiers and mixers. They may be configured as power blocks from which large co-ordinated paging, music and entertainment systems may be assembled. Of particular interest for entertainment applications are the 8 input units, featuring individual treble and bass controls for each input channel, and the master gain which operates on six input channels only. Input circuitry is of a versatile plug-in modular format with a comprehensive choice of facilities, and modules may be changed or supplemented at will to suit system revisions. As with all Mustang amplifiers, VA units may be combined with other amplifiers, loudspeaker control units, and other accessories to expand system facilities with complete compatibility.

Use of the finest electronic and mechanical components ensures a long and maintenance-free life, dramatically reducing the long-term 'cost of ownership'.



MAIN FEATURES

- Robust MOS-FET 200Watt output circuitry with massive heatsink
- Full range of plug-in modules to meet all system requirements.
- Choice of 4, 6 or 8 input control formats
- 0dB input/output access points for system expansion, tape recording, etc.
- Priority controlled DC current sinks, to operate zone relays/busy lamps, etc.
- Simultaneous low impedance and 100V outputs
- Plug-in driver circuit modules featuring advanced electronics for accuracy and reliability.
- Laced cableforms throughout
- Convection cooled for supreme reliability
- Generous power and output transformers provide effortless performance.
- Stabilised mixer supply
- Free-standing cased, or standard 3U rack mounting versions
- Full electronic protection
- Robust locking DIN connectors
- 24V DC output to operate remote relays, lamps, or remote pre-amplifiers, etc.
- Optional spindle-locked controls in place of front gain control knobs.
- Delayed and silent switch on/off
- Protection of load and amplifier by automatic disconnect circuit during fault condition
- Output and temperature status LED's
- Output level indication by discrete LED ladder
- Over temperature auto shutdown and re-set.



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TECHNICAL SPECIFICATION

DATA SHEET DS48-01

	V.8M	VA.2804	VA.2806	V.2808	A.280
Format	Mixer	Integrated mixer-amplifier			Slave amplifier
Power output.	-	200W RMS Continuous sine wave rated			
Output matching	-	4 ohms and 100V balanced floating with centre tap and 100V balanced floating			
Input module capacity	8	4	6	8	Unbalanced 0dB input
Input sensitivity & S/N ratio	Dependent upon input module(s) fitted - see other data sheet				Optional fitted balanced input transformer
Treble & Bass control groups	8	1	2	8	-
Treble & Bass control range	±13dB @ 100Hz; ±17dB @ 10kHz ref 1kHz.				-
User controls	Individual input gains, treble, bass, master, power on-off				Power on-off
Priority (optional use)	Input No.1 - requires 2mA closure contacts to operate				-
Mixer facility socket (0dB access point)	0.775V @ 600 ohms and 0.775V @ 10k ohms full programme output	0.775V @ 600 ohms mixer output; 0.775V @ 10k ohms power amplifier input			0.775V @ 10k ohms power amplifier input
Auxiliary DC output	24V nominal. Maximum load 1A. Fused internally				-
Auxiliary control output	Priority current sink operating during priority channel access.				-
Power section - frequency response	-	-3dB @ 20Hz; -0.1dB @ 20kHz; 4 ohms ref 1kHz; -3dB @ 20Hz and 20kHz 100V output ref 1kHz			
Power section S/N ratio	-	100dB			
Power section T.H.D.	-	Typically 0.05% 4 ohm output			
100V line regulation	-	0.9dB no load/max load			
Input connectors	Locking DIN 5 pin 180° (not supplied). Mustang part No. 5-180				
Mains connector	Standard 3-pin 6A IEC (supplied)				
100V Power output connections	-	4BA (M3.5) barrier terminals to suit wire ends, spades or rings			
Sink connections	Via Auxiliary output. Locking DIN 5 pin 240° (not supplied).				-
Mains voltage	220/240V AC 50/60Hz; 115V option is available - please contact the factory				
AC supply fuse	3.15A(T) 20mm HRC				
Switch-on time lag	-	2.5 seconds			
LED output ladder	Ten 3dB steps to -27dB				
Net weight (Gross - add 1.5Kg)	6kg excluding modules	15kg excluding modules			
Dimensions (19" style)	483 x 132 x 328mm (3U fitting) excluding connectors: add 40mm FMS for handles				
Dimensions (free-standing style)	441 x 139 x 328mm excluding connectors; add 40mm FMS for handles				

MODULE RANGE

MODULE	FUNCTION	MODULE	FUNCTION
M.60	Multi-purpose transformer balanced microphone & line, with phantom DC supply	TG.2	Tone generator - 1kHz tone pips and continuous tone
M.60TB	Multi-purpose transformer balanced mic/line, phantom DC. Treble & bass adjustment	TG.3	Tone generator - 1kHz gongs
L.50	Multi-purpose transformer high level balanced line	TG.5	Tone generator - Warble alarm and Dee-Dah alarm
M.6	Microphone 30-200 ohms, transformer balanced, with phantom supply	XAM.2	Tuner, AM, fixed single station
QM.6	Microphone 30-200 ohms, transformer balanced, three-tone chime, phantom supply	VFM.4	Tuner, VHF-FM. single selectable station
G.4	Phono-turntable pick-up with RIAA ceramic/magnetic equalisation		
T.5	Line input, wide range sensitivity, unbalanced general purpose		
L.5	Line input, transformer balanced, medium to high level input		

QUALITY ASSURANCE

Guided by a policy of non-obsolescence, every part for the VA 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 VA 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.