MA5.0Q

Lightweight, High Power, 4- Channel Power Amplifier

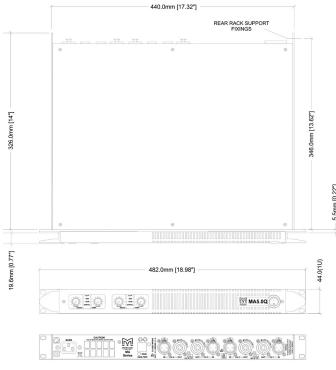


Features

- Compact and space saving: 4 channels in 1 RU at 358mm / 14.1" depth
- Minimal "carbon footprint" and operational cost of electricity
- More watts, less weight: up to 5,000 W in 7.3 kg / 16 lb
- Switch mode power supply, internally switchable 230/115V nominal
- Fixed frequency switch mode amplifier output stages
- Patented amplifier output filters with ripple cancellation network
- Able to drive 100 V distributed lines directly without the need for transformers ¹)
- ullet Optimized for 4Ω loads, thus ideally matching real-world scenarios in targeted applications
- AC protection: shuts down power supply when AC mains voltage is outside operating range
- Clip limiter: prevents severely clipped waveforms from reaching loudspeakers, while still maintaining full peak power output
- DC protection: protects against infrasonic signal at the outputs
- VHF protections: protects the loudspeakers against destructive non-audible, non-musical high frequency signals
- Short circuit protection: protects the amplifier from short circuit or similar events on the outputs; with automatic protection reset
- Thermal protection: mutes outputs once output devices reach 75 °C / 167 °F; automatic unmute once temperature is down to 65 °C / 149 °F
- Temperature controlled continuous variable speed fan, front to rear airflow
- Recessed stepped level attenuators

Applications

- Small to medium-scale systems, portable and installed
- Stage monitoring
- Hotels, restaurant and bars
- · Amusement parks, themed entertainment
- · Houses of worship, auditoriums
- · Educational facilities
- · Live and dance clubs
- Mobile DJ's

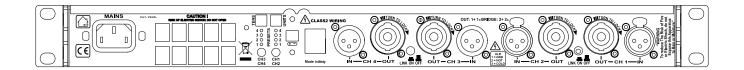






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Technical Specifications

General						
Number of channels			4			
Output power		·				
EIAJ Test Standard, 1 kHz,	1% THD 4Ω / Ch			mono-bridged moo 100 V ²⁾ 8Ω / Ch pair		
EIAJ IEST Stallualu, 1 km2,	1.250 W	750 W	70 V ¹⁾ 1.000 W	750 W	2,500 W	
Max output voltage / current	1,250 W		5 V _{peak} / 65 A _{peak}	730 W	2,300 W	
AC Mains Power		15.	J v peak / UJA peak			
Power supply		Universal	regulated switch mo	nde		
Operating voltage / Inrush cur	rent	115 V / 230 V (factory selection) \pm 15%, 50 Hz - 60 Hz / < 34 A _{RMS}				
Consumption / current draw	TOTAL	@ 230 V		@ 115 V		
Idle	64 W	0.51 A		64 W	0.6 A	
I/8 of max output power @		5.8 A		905 W	11.6 A	
1/4 of max output power @		11.1 A		1,772 W	22.2 A	
1/4 of max output power @	41.2 1,772 W	11.1 K		1,772 W	22.2 K	
Thermal						
Environmental operating temp	erature	0° - 45° C / 32° - 113° F				
Thermal dissipation	al dissipation Fan, continuously variable speed, temperature controlled, fr				W	
Idle		218 BTU/h		55 kcal/h		
I/8 of max output power @	4Ω	955 BTU/h		241 kcal/h		
I/4 of max output power @	4ΩΩ	1,781 BTU/h		449 kcal/h		
Audio						
Gain	Gain 32 dB, 30 dB, 28 dB, 26 dB, 24 dB, 22 dB, 20 dB, 18 dB, 14 dB, 4 dB, - ∞, user selectable					
Frequency response	10 Hz - 30 kHz (1 W @ 8	10 Hz - 30 kHz (1 W @ 8Ω , \pm 3 dB)				
S/N ratio (amplifier sectio		>110 dBA (20 Hz - 20 kHz, A weighted)				
Crosstalk separation	>70 dB @ 1 kHz					
Input sensitivity @ 8Ω	1.94 V / 7.97 dBu	1.94 V / 7.97 dBu				
Max input level	6 V / 17.8 dBu	6 V / 17.8 dBu				
Input impedance	10 kΩ	10 kΩ				
THD+N / SMPTE IMD	< 0.05% @ 1/2 of full	< 0.05% @ 1/2 of full power				
DIM100 IMD		typ. <0.005% (<0.02% @ >0.1 W)				
Slew rate	40 V/μs @ 8Ω, input fi	40 V/μs @ 8Ω, input filter bypassed				
Damping factor @ 8Ω	>5000 @ 100 Hz					
Front Panel						
Indicators		4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow				
Controls		1 stepped level attenuator pot per channel; mains switch				
Maintenance	Dust filter foam behing	Dust filter foam behind front panel				
Rear Panel	Succession Sum	a mont pano.				
Audio signal input connectors	4 x balanced Neutrik	4 x balanced Neutrik ® XLR female				
Loudspeaker output connector	s 4 x Neutrik® Speakon I	4 x Neutrik® Speakon NL4MD				
AC mains	· ·	IEC C13 16 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation				
Controls		2 x link switch, linking analog inputs 1 & 2 and 3 & 4				
Construction	Z X HIIK SWILCH, HIIKING	analog inputs 1 & Z and 3 & 4				
Dimensions	W / 83 mm / 10" U / / F	. mm / 1 RII D 358 mm / 1/1 1"				
Chassis		W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1" 1 mm (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole protection, steel side				
	reinforcement & rear su	reinforcement & rear support				
Weight	7.3 kg / 16 lb					

- External high-pass filter and output voltage limiter required.
 External high-pass filter required.

