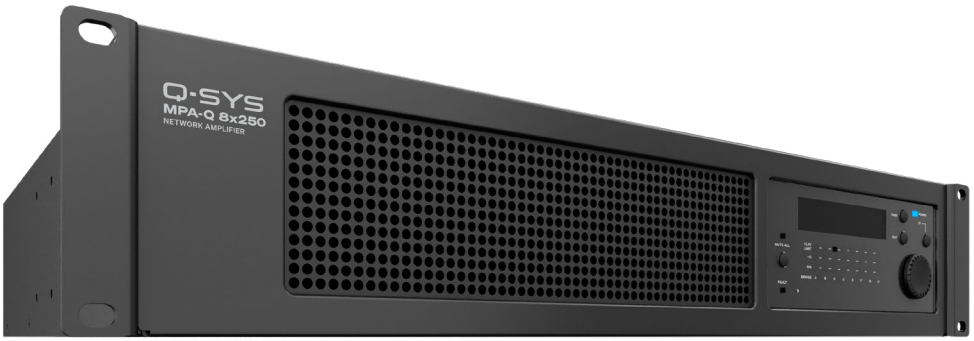
Q-SYS MPA-Q SERIES

Network amplifiers

KEY FEATURES

- **MPA-Q 4×250:** Four (4) output channels at 250 W per channel
- **MPA-Q 4×500:** Four (4) output channels at 500 W per channel
- **MPA-Q 8×125:** Eight (8) output channels at 125 W per channel
- **MPA-Q 8×250:** Eight (8) output channels at 250 W per channel
- Lo-Z, Hi-Z, 70 V and 100 V direct drive available on all channels (no bridging or manual switches required)
- Analog, line-level audio inputs per output channel, fully routable into Q-SYS or direct out
- Two (2) gigabit Ethernet ports for redundant networked audio
- Quiet fan-cooled design allows for co-location with loudspeakers
- Quick audio restore after a power outage if PoE connection is available
- Standalone mode automatically switches to available analog inputs if network connectivity drops
- Analog Mode bypasses networked audio and creates a fully analog amplifier. Front panel display allows basic channel configuration in this mode.
- Four (4) GPI inputs and two (2) NO/NC output relays
- Full-rack width, 2RU form factor and included hardware for rack- or surface-mounting



RIGHTSIZED FOR MEDIUM-TO-LARGE SPACES

MPA-Q Series introduces a new mid-power tier to the Q-SYS network amplifier portfolio and is ideal for spaces where high-output amplifiers exceed operational needs, like hospitality and retail facilities, entertainment spaces and larger corporate and government environments.

ADAPT TO KEEP AUDIO FLOWING

Ensure your audio system stays running with minimal interruptions. If network connectivity drops, MPA-Q Series amplifiers offer the ability to automatically switch the source to available analog inputs to maintain sound continuity. In the event of a power outage, network audio can be restored within seconds if a PoE connection is available.

VENUE-WIDE AUDIO WITH Q-SYS

MPA-Q Series network amplifiers extend a seamless Q-SYS experience to even more spaces, delivering native audio routing and control in both distributed and performance audio applications throughout your venue.

INTEGRATED AUDIO, VIDEO AND CONTROL

MPA-Q Series network amplifiers are driven by the Q-SYS Full Stack AV Platform, which unifies data, devices and a cloud-first open architecture to deliver a fully integrated audio, video and control solution that offers simpler integration and software-based scalability.

	MPA-Q 4x250	MPA-Q 4x500	MPA-Q 8x125	MPA-Q 8x250
AUDIO				
AMPLIFIER OUTPUT				
Freq response @ 20 Hz - 20 kHz, 8Ω	+0.2 dB / -0.7 dB			
Output THD+N @1kHz	0.01%-0.03% typical; 1% max			
SNR @ 20Hz-20kHz, 8Ω, A-weighted	>112 dB			
Gain @ +4 dBu input	31 dB	34 dB	28 dB	31 dB
Damping factor	>160			
ANALOG INPUTS (LINE LEVEL ONLY)				
Input dynamic range	>108 dB			
Input impedence @ 1kHz	>11k balanced and >5.5k unbalanced			
Sample rate	48 kHz			

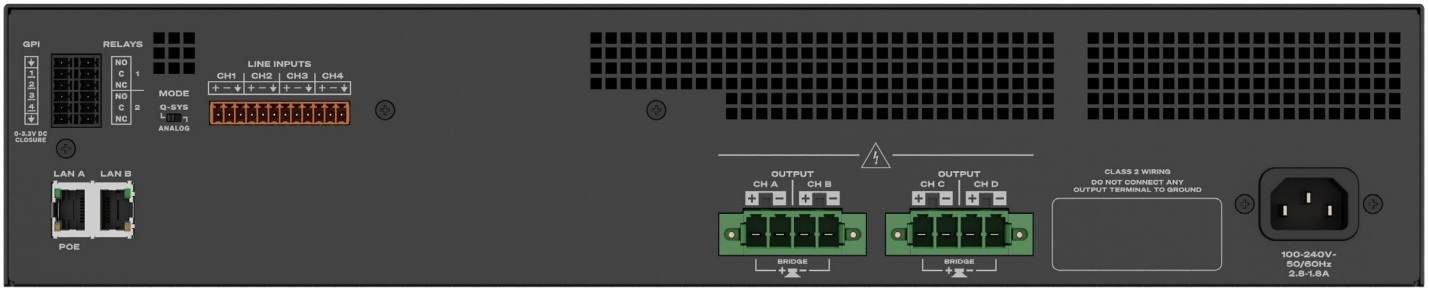
OUTPUT POWER

		MPA-Q 4x250		MPA-Q 4x500		MPA-Q 8x125		MPA-Q 8x250	
	Loads	**Maximum[1]**	**Continuous[2]**	**Maximum**	**Continuous**	**Maximum**	**Continuous**	**Maximum**	**Continuous**
All channels driven A, B, C, D	100 V	250 W	150 W	500 W	300 W	125 W	75 W	250 W	150 W
	70 V	250 W	150 W	500 W	300 W	125 W	75 W	250 W	150 W
	8Ω	250 W	150 W	500 W	300 W	125 W	75 W	250 W	150 W
	4Ω	250 W	150 W	500 W	300 W	125 W	75 W	250 W	150 W
	2Ω	250 W	150 W	500 W	300 W	125 W	75 W	250 W	150 W
Single channel driven A or B or C or D	100 V	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	70 V	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	8Ω	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	4Ω	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
	2Ω	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2 channels bridged A+B or C+D	100 V	500 W	300 W	1000 W	600 W	250 W	150 W	500 W	300 W
	70 V	500 W	300 W	1000 W	600 W	250 W	150 W	500 W	300 W
	8Ω	500 W	300 W	1000 W	600 W	250 W	150 W	500 W	300 W
	4Ω	500 W	300 W	1000 W	600 W	250 W	150 W	500 W	300 W
	2Ω	Not supported		Not supported		Not supported		Not supported	

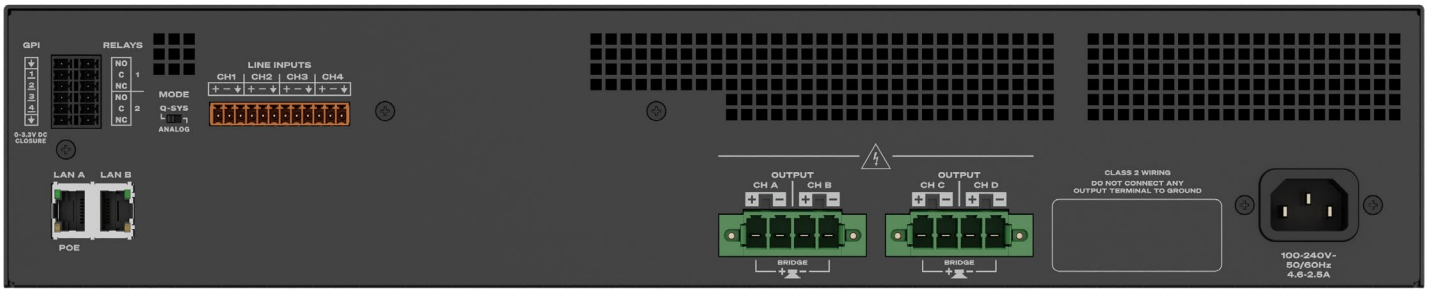
1. **Max Power**: 20 ms ,1 kHz sine wave burst; this data is most useful for asymmetrical loading of amplifier channel and maximizing power utilization of the amplifier.
2. **Continuous power:** 20 Hz - 20 kHz bandwidth, all channels driven with same load; this data is most useful for estimating longer-term power output across all amplifier channels.

	MPA-Q 4x250	MPA-Q 4x500	MPA-Q 8x125	MPA-Q 8x250
ENVIRONMENTAL				
Operating temp	32° TO 104° F (0° - 40° C)			
Storage temp	-4° TO 158° F (-20° TO +70° C)			
Humidity range	5% - 85% RH			
Fan noise (idle & max)	34dBA typical, 50dBA max			
Cooling	Forced air cooling, thermally regulated fan speed, front-to-rear airflow			
PHYSICAL				
Audio I/O connections	Output: 4x channels (Euro 7.62 mm) Input: 4x channels (Euro 3.5 mm)	Output: 4x channels (Euro 7.62 mm) Input: 4x channels (Euro 3.5 mm)	Output: 8x channels (Euro 7.62 mm) Input: 8x channels (Euro 3.5 mm)	Output: 8x channels (Euro 7.62 mm) Input: 8x channels (Euro 3.5 mm)
Networking	2x 1 Gbps Ethernet ports LAN A optionally accepts PoE (802.3af Type 1) for quick time-to-audio following a power interruption			
GPI	0-3.3V DC Closure			
Mounting options	Front rack ears come installed for rack mount installation (rack ears can also be used for chassis-supported surface-mounting)			
Controls and indicators (front)	Buttons: Page, Edit, ID, Mute All Pin: Reset Control Knob OLED Screen Clip, Limit, Bridge LED Indicators			
Controls and indicators (back)	Q-SYS / Analog Mode switch			
AC power input	100-240 V, 50/60 Hz, 2.8-1.8 A	100-240 V, 50/60 Hz, 4.6-2.5 A	100-240 V, 50/60 Hz, 3.2-2.0 A	100-240 V, 50/60Hz, 5.2-2.8 A
Product dimensions (L x W x H)	15.0 × 19.0 × 3.5 in (381 × 483 × 89 mm)			
Package dimensions (L x W x H)	20.4 × 23.3 × 7.7 in (519 × 592 × 192 mm)			
Product weight	19.4 lbs (9.0 kg)	20.7 lbs (9.4 kg)	22.5 lbs (10.2 kg)	22.9 lbs (10.4 kg)
Package weight	25 lbs (11.4 kg)	26 lbs (11.8 kg)	28 lbs (12.7 kg)	28 lbs (12.7 kg)
Agency approvals	TUV, CE, ROHS/WEEE compliant, FCC Class A (conducted and radiated emissions)			
Included accessories	1x AC mains power cord (country specific) Removable rack ears for rack- or surface-mounting 4-position 7.62mm pitch Euroblock connectors (Qty 4) 3-position 3.5mm pitch Euroblock connectors (Qty 8) 12-position (2-row) 3.5mm pitch Euroblock connector (Qty 1)		1x AC mains power cord (country specific) Removable rack ears for rack- or surface-mounting 4-position 7.62mm pitch Euroblock connectors (Qty 8) 3-position 3.5mm pitch Euroblock connectors (Qty 16) 12-position (2-row) 3.5mm pitch Euroblock connector (Qty 1)	

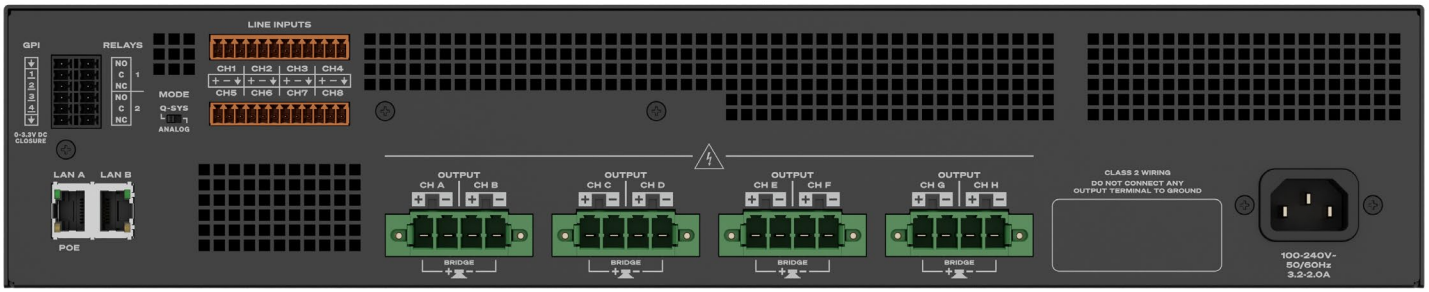
MPA-Q 4×250



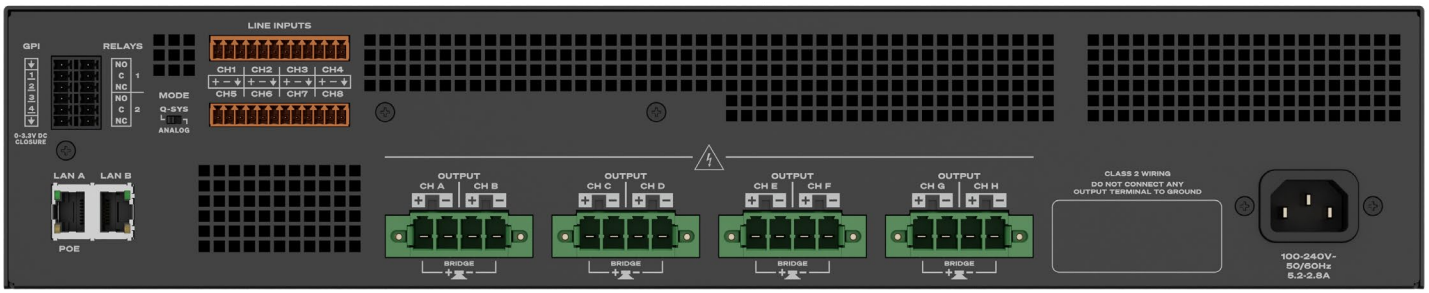
MPA-Q 4×500



MPA-Q 8×125



MPA-Q 8×250



+1·800·854·4079 | +1·714·754·6175 | WWW.QSYS.COM

© 2025 QSC, LLC all rights reserved. QSC, LLC's trademarks include but are not limited to Q-SYS™, Q-SYS logo, and all trademarks are listed under www.qsys.com/trademarks, some of which are registered in the U.S. and/or other countries. All other trademarks are the property of their respective owners.

January 13, 2026