## **M28Q**















- 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 DI's

Equally versatile in both portable and installed system configurations and with its 4 channels delivering up to 2,800 W all neatly packed in one single rack unit weighing just over 7 kg / 16 lb, the M28Q is a flexible, cost-effective solution for small to medium sound

Benefitting from core technologies of Powersoft's flagship K Series, the **M Series** sets a class standard in efficiency, leading to low power consumption, and consequently to substantial money savings on electricity, all in an eco-friendly way.

Minimum heat dissipation makes the **M28Q** suitable for hot or otherwise challenging environments.

Added the legendary sound quality thanks to Powersoft's unique, patented Class D output stage design, the **M28Q** represents a fantastic value, practically as well as commercially.

The **M28Q** comes with 4 years warranty and, like all Powersoft products, is entirely designed and made in Italy.

4-chann	4-channel mode	
4 Ω / Ch	8 Ω / Ch	$8\Omega$ / Ch pair
700 W	360 W	1,400 W

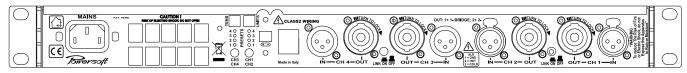
EIAJ Test Standard, I kHz, I% THD

- ✓ Legendary Powersoft efficiency:
  - ► Compact and space saving: 4 channels in 1 RU at 358 mm / 14.1" depth
  - Green Audio Power®: minimal "carbon footprint" and operational cost of electricity
  - ▶ Plenty of power, less weight: up to 2,800 W in 7.3 kg / 16 lb
- ✓ Unique Powersoft technology for efficient, reliable performance:
  - ▶ Switch mode power supply, internally switchable 230/115 V nominal
  - ► Fixed frequency switch mode amplifier output stages
  - ▶ Patented amplifier output filters with ripple cancellation network
- $\checkmark$  Optimized for 4  $\Omega$  loads, thus ideally matching real-world scenarios in targeted applications
- ✓ Fully protected circuit design:
  - 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
- ✓ Full four years warranty
- ✓ Also available as M28Q HDSP+ETH with integrated DSP and Ethernet comm port









## **Specifications**

	Number of channels			4				
	Output power	4-channel mode mono-bridged mode			d mode			
	EIAJ Test Standard, I kHz, I% THD	4 Ω / Ch	8 Ω	/ Ch	8	Ω / Ch pair		
	,	700 W		) W		1,400 W		
	Max output voltage / current	, 55		/ 60 A <sub>peak</sub>		1,100 11		
C Mains P			OJ Vpeak	7 00 7 peak				
C Mains P			Helican Land	Control State on the				
	Power supply		Universal, regulated switch mode					
	Operating voltage /Inrush current	115 V / 230 V (factory selection) ± 15%, 50 Hz - 60 Hz / < 26 A <sub>RMS</sub>						
	Consumption / current draw	_	230 V		@ 115 V			
	Idle	62 W	0.51 A	64 W		0.6 A		
	I/8 of max output power @ 4 $\Omega$	580 W	3.74 A	580 W		7.48 A		
	I/4 of max output power @ 4 $\Omega$	1,066 W	6.52 A	1,066 W		13.04 A		
hermal								
	Environmental operating temperature	0° - 45° C / 32° - 113° F						
		Ean						
	Thermal dissipation		Fan, continuously variable speed, temperature controlled, front to rear airflow					
	Idle		2 BTU/h					
	I/8 of max output power @ 4 $\Omega$		5 BTU/h	198 kcal/h 315 kcal/h				
	I/4 of max output power @ 4 $\Omega$	1,24	9 BTU/h					
Audio								
	Gain	32 dB, 30 dB, 28 dB, 26 dB,	24 dB, 22 dB, 20 dB, 18 dB, 14 dB	, 4 dB, -∞, user select	table			
	Frequency response	10 Hz - 30 kHz (1 W @ 8 Ω	, ± 3 dB)					
	S/N ratio (amplifier section)	>111 dBA (20 Hz - 20 kHz, /						
	Crosstalk separation	>70 dB @ 1 kHz	· weighted)					
	Input sensitivity @ 8 Ω	1.34 V / 4.76 dBu						
	Max input level	6 V / 17.8 dBu						
	Input impedance	10 kΩ						
	THD+N / SMPTE IMD	<0.05% @ I/2 of full power						
	DIMI00 IMD	typ. <0.005% (<0.02% @ >0.1 W)						
	Slew rate	40 V/µs @ 8 $\Omega$ , input filter bypassed						
	Damping factor @ 8 $\Omega$	>5000 @ 100 Hz						
OSP (option								
(-1	A/D converter	CS5381, 2 channels, 24 bit / 4	8 kHz 120 dB SNR					
	D/A converter	CS4398, 2 channels, 24 bit / 4						
		7 Hz - 22 kHz	FO KI 12, 120 GB 31 VI V					
		/ HZ - ZZ KHZ						
	Frequency response @ -3 dB	0.0107 (0.011 0.0111)						
	THD	< 0.01% (20 Hz - 20 kHz)						
			ent and upload via Armonía Pro A	Audio Suite™				
	THD		ent and upload via Armonía Pro A	Audio Suite™				
	THD Presets	Bank of 4 presets, managem 10 ms per output	ent and upload via Armonía Pro A , Bessel, 6 dB/oct to 48 dB/oct	Audio Suite™				
	THD Presets Delay for time alignment	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley			ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet	, Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ,	, Bessel, 6 dB/oct to 48 dB/oct	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
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	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre $<$ 120 Hz, range $\pm$ 2 $\Omega$	, Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
Front Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre $<$ 120 Hz, range $\pm$ 2 $\Omega$	, Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
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ront Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range $\pm$ 2 $\Omega$ up to 170 ms for 2 IN/2 OU 4 LEDs per channel: 3 x gree 2 status LEDs: 1 x green, 1	, Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
Front Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators Controls	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree 2 status LEDs: 1 × green, 1 I stepped level attenuator p	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow sot per channel; mains switch	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators	Bank of 4 presets, managem 10 ms per output Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range $\pm$ 2 $\Omega$ up to 170 ms for 2 IN/2 OU 4 LEDs per channel: 3 x gree 2 status LEDs: 1 x green, 1	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow sot per channel; mains switch	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators Controls Maintenance	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 I stepped level attenuator p Dust filter foam behind fron	Bessel, 6 dB/oct to 48 dB/oct ric per channel; peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow sot per channel; mains switch t panel	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators Controls Maintenance Audio signal input connectors	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 I stepped level attenuator p Dust filter foam behind from	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 × red × yellow sot per channel; mains switch t panel  female	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators Controls Maintenance  Audio signal input connectors Loudspeaker output connectors	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 × red × yellow sot per channel; mains switch t panel  female MD	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
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	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 x gree 2 status LEDs: 1 x green, 1 1 stepped level attenuator p Dust filter foam behind from  4 x balanced Neutrik® XLR 4 x Neutrik® Speakon NL4 1 x RJ45 with activity LED w 2 x Pushbutton (stepping th 2 x 4 LED preset indicators	Bessel, 6 dB/oct to 48 dB/oct ric per channel; peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT en, 1 x red x yellow sot per channel; mains switch t panel  female MD with 2 rotary address switches rough bank of 4 presets)	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay Indicators Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 x gree 2 status LEDs: 1 x green, 1 1 stepped level attenuator p Dust filter foam behind fron  4 x balanced Neutrik® XLR 4 x Neutrik® Speakon NL4 1 x RJ45 with activity LED w 2 x Pushbutton (stepping th	Bessel, 6 dB/oct to 48 dB/oct ric per channel; peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT en, 1 x red x yellow sot per channel; mains switch t panel  female MD with 2 rotary address switches rough bank of 4 presets)	ing, hi/lo pass, band pa	ass, band stop, all	pass.		
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	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × greet, 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4 1 × RJ45 with activity LED w 2 × Pushbutton (stepping th 2 × 4 LED preset indicators 1 × 2-pin Phoenix type MC	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvishelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  an, 1 x red x yellow sot per channel; mains switch t panel  demale MD with 2 rotary address switches rough bank of 4 presets)  1.5/2-ST-3.81 C mains cord with 3-pin plug 15 A	ing, hi/lo pass, band pa pass)				
Rear Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage AC mains Controls	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4 1 × RJ45 with activity LED w 2 × Pushbutton (stepping th 2 × 4 LED preset indicators 1 × 2-pin Phoenix type MC IEC CI3 16 A connector; AG	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvishelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  an, 1 x red x yellow sot per channel; mains switch t panel  demale MD with 2 rotary address switches rough bank of 4 presets)  1.5/2-ST-3.81 C mains cord with 3-pin plug 15 A	ing, hi/lo pass, band pa pass)				
Front Panel Rear Panel Constructio	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage AC mains Controls	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad filters (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4 1 × RJ45 with activity LED w 2 × Pushbutton (stepping th 2 × 4 LED preset indicators 1 × 2-pin Phoenix type MC IEC CI3 16 A connector; AG 2 × link switch, linking analog	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvishelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow soot per channel; mains switch t panel  defemale MD with 2 rotary address switches rough bank of 4 presets)  1.5/2-ST-3.81 C mains cord with 3-pin plug 15 A g inputs 1 & 2 and 3 & 4	ing, hi/lo pass, band pa pass)				
Rear Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage AC mains Controls Dimensions	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad fillrers (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4 1 × RJ45 with activity LED w 2 × Pushbutton (stepping th 2 × 4 LED preset indicators 1 × 2-pin Phoenix type MC IEC CI3 16 A connector; AG 2 × link switch, linking analog W 483 mm / 19", H 44.5 mr	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for 1 IN/2 OUT  en, 1 x red x yellow soot per channel; mains switch t panel  defemale MD with 2 rotary address switches rough bank of 4 presets)  1.5/2-ST-3.81  C mains cord with 3-pin plug 15 A g inputs 1 & 2 and 3 & 4  m / 1 RU, D 358 mm / 14.1"	ing, hi/lo pass, band pa pass)	16 A for every ot	ther nation		
Rear Panel	THD Presets Delay for time alignment Crossover filters Output equalizer Input equalizer Limiters Damping control System Delay  Indicators  Controls Maintenance  Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage AC mains Controls	Bank of 4 presets, managem  10 ms per output  Butterworth, Linkwitz-Riley up to 12 biquad fully paramet up to 5 biquad fillrers (PEQ, Peak limiter, RMS limiter, fre < 120 Hz, range ± 2 Ω up to 170 ms for 2 IN/2 OU  4 LEDs per channel: 3 × gree, 2 status LEDs: 1 × green, 1 1 stepped level attenuator p Dust filter foam behind from  4 × balanced Neutrik® XLR 4 × Neutrik® Speakon NL4 1 × RJ45 with activity LED w 2 × Pushbutton (stepping th 2 × 4 LED preset indicators 1 × 2-pin Phoenix type MC IEC CI3 16 A connector; AG 2 × link switch, linking analog W 483 mm / 19", H 44.5 mr	Bessel, 6 dB/oct to 48 dB/oct ric per channel: peaking, hi/lo shelvi shelving, band pass, band stop, all quency dependent RMS limiter  T or 340 ms for LIN/2 OUT en, Lx red xyellow tot per channel; mains switch t panel  defined  MD with 2 rotary address switches rough bank of 4 presets)  1.5/2-ST-3.81  C mains cord with 3-pin plug 15 A g inputs L& 2 and 3 & 4  m / LRU, D 358 mm / L4.1" nd steel removable dust cover, 3 and 1	ing, hi/lo pass, band pa pass)	16 A for every ot	ther nation		

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