M30D









2CH





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

Equally versatile in both portable and installed system configurations and with delivering up to 3,000 W out of one single rack unit weighing just over 7 kg / 16 lb, the **M30D** is a flexible, cost-effective solution for small to medium sound systems.

Benefitting from core technologies of Powersoft's flagship K Series, the M30D 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 **M30D** suitable for hot or otherwise challenging environments.

Added the legendary sound quality thanks to Powersoft's unique, patented Class D output stage design, the **M30D** represents a fantastic value, practically as well as commercially.

The **M30D** comes with 4 years warranty and, like all Powersoft products, is entirely designed and made in Italy.

	2-chan	mono-bridged mode		
4 Ω / Ch	8 Ω / Ch	70 V ¹⁾	100 V ²⁾	8 Ω / Ch pair
1,500 W	900 W	1,200 W	1,500 W	3,000 W

EIAJ Test Standard, I kHz, I% THD

✓ Legendary Powersoft efficiency:

- ► Compact and space saving: I RU at 358 mm / I4.I" depth
- Green Audio Power®: minimal "carbon footprint" and operational cost of electricity
- ▶ Plenty of power, little weight: up to 3,000 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

✓ Driving distributed line systems:

- Able to drive 100 V distributed lines directly without the need for transformers ¹⁾
- \checkmark Optimized for 4 Ω 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 M30D HDSP+ETH with integrated DSP and Ethernet comm port



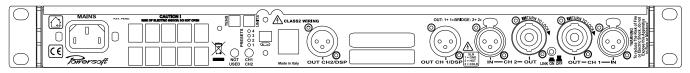
I) External hig-pass filter and voltage limiter required.

²⁾ External high-pass filter required.





2-Channel Power Amplifier for Touring and Install Applications



Specifica	ations								
General									
	Number of channels			2					
	Output power			nnel mode		mono-bridged mod			
	EIAJ Test Standard, 1 kHz, 1% THD	4 Ω / Ch	8 Ω / Ch	70 V ¹⁾	100 V ²⁾	8 Ω / Ch pair			
		1,500 W	900 W	1,200 W	1,500 W	3,000 W			
	Max output voltage / current			135 V _{peak} / 65 A _{peak}					
AC Mains Po	ower								
	Power supply	Universal, regulated switch mode							
	Operating voltage / Inrush current	115 V / 230 V (factory selection) \pm 15%, 50 Hz - 60 Hz / $<$ 28 A _{RMS}							
	Consumption / current draw	@ 230 V			@ 115 V				
	ldle	37 W	A	37 W 0.6 A					
	I/8 of max output power @ 4 Ω	530 W 3.54 A		A	530 W 7 A				
	I/4 of max output power @ 4 Ω	1,024 W	A	1,024 W	13.04 A				
Thermal									
THEITHAI	Environmental operating temperature	0° - 45° C / 32° - 113° F							
	Thermal dissipation	Fan, continuously variable speed, temperature controlled, front to rear airflow							
	Idle	Га							
			126 BTU/h		32 kcal/h				
	I/8 of max output power @ 4 Ω		529 BTU/h		133 kcal/h 236 kcal/h				
	I/4 of max output power @ 4 Ω		935 BTU/h		236 kcal	/n			
Audio		20 10 20 15 55 15	ID 04 ID 05 :- 5						
	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 Ω, ± 3 dB)							
	S/N ratio (amplifier section)	>11 dBA (20 Hz - 20 kH	z, A weighted)						
	Crosstalk separation	>70 dB @ kHz							
	Input sensitivity @ 8 Ω	2.13 V / 8.8 dBu							
	Max input level	6 V / 17.7 dBu							
	Input impedance	10 kΩ							
	THD+N / SMPTE IMD	≤ 0.07% @ 1/2 of full power							
	DIMI00 IMD	typ. <0.005% (<0.02% @ >0.1 W)							
	Slew rate	40 V/ μ s @ 8 Ω , input filter bypassed							
	Damping factor @ 8 Ω	>5000 @ 100 Hz							
DSP (option	nal)								
	A/D converter	CS5381, 2 channels, 24 bit	t / 48 kHz, 120 dB SNR						
	D/A converter	CS4398, 2 channels, 24 bit / 48 kHz, 120 dB SNR							
	Frequency response @ -3 dB	7 Hz - 22 kHz							
	THD	< 0.01% (20 Hz - 20 kHz	2)						
	Presets	Bank of 4 presets, manag	Bank of 4 presets, management and upload via Armonía Pro Audio Suite™						
	Delay for time alignment	10 ms per output							
	Crossover filters		Butterworth, Linkwitz-Riley, Bessel, 6 dB/oct to 48 dB/oct						
	Output equalizer	up to 12 biquad fully parametric per channel: peaking, hi/lo shelving, hi/lo pass, band pass, band stop, all pass.							
	Input equalizer								
	Limiters	up to 5 biquad filters (PEQ, shelving, band pass, band stop, all pass) Peak limiter, RMS limiter, frequency dependent RMS limiter							
	Damping control	$<$ 120 Hz, range \pm 2 Ω							
	System Delay	up to 170 ms for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT							
Front Panel									
	Indicators	4 LEDs per channel: 3 × green, 1 × red							
		2 status LEDs: 1 x green, 1 x yellow							
	Controls	I stepped level attenuate	or pot per channel; ma	ns switch					
	Maintenance	Dust filter foam behind front panel							
Rear Panel									
	Audio signal input connectors	2 x balanced Neutrik® XLR female							
	Loudspeaker output connectors	2 x Neutrik® Speakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input							
	Network data port Ethernet	I × RJ45 with activity LED with 2 rotary address switches							
	DSP preset selection	I × Pushbutton (stepping through bank of 4 presets) I × 4 LED preset indicators							
	Aux voltage	I x 2-pin Phoenix type MC 1.5/2-ST-3.8I							
	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	I x link switch, linking an		P PIGE 13 / 101 U3, IEC	Schake to A for every	Jaior Hadon			
Construction		r x iiiik switch, iiiiking an	alog Iliputs T & Z						
Constructio		\A/ 402 / 10" 11 44 5	/ I DI I D 250	- / 14 1"					
Dimensions W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1"									
	Chassis I mm (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole reinforcement & rear support								
	Weight	7.3 kg / 16 lb							

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

2) External high-pass filter required.

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