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



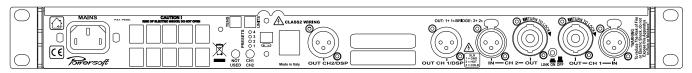
External hig-pass filter and voltage limiter required.

²⁾ External high-pass filter required.





2-Channel Power Amplifier for Touring and Install Applications



Number of channels 7 100 proper 100 proper 124 first Standard Little, 16 THD 14.07 ch 8.0.7 ch 17.07 mill 100 vs 8.0.7 ch pare 125 Vury 163 Provided Final Standard Little, 16 THD 15.00 w 90.00 w 1.20 0w 1.30 0w 1.3	Specifica	ations								
Output propore	General									
EAST Test Standard, 1 Met. 1 No 1 HD		Number of channels	2							
Max output voltage current		Output power		2-chai	nnel mode		mono-bridged mode			
Max. output voltage current		EIAJ Test Standard, 1 kHz, 1% THD	4 Ω / Ch	8 Ω / Ch	70 V ¹⁾	100 V ²⁾	8Ω / Ch pair			
AC Mains Power Power supply			1,500 W	900 W	1,200 W	1,500 W	3,000 W			
Power supply Universal regulated wurch mode		Max output voltage / current			135 V _{peak} / 65 A _{peak}					
Operating voltages / Introducturent Consumption / Current of raw Get 37 W 0.3 A 37 W 0.5 A 10 of max output power @ 4Ω 1.024 W 6.52 A 1.024 W 13.04 A 14 of max output power @ 4Ω 1.024 W 6.52 A 1.024 W 13.04 A 15 of max output power @ 4Ω 1.024 W 6.52 A 1.024 W 13.04 A 16 of max output power @ 4Ω 1.024 W 6.52 A 1.024 W 13.04 A 16 of max output power @ 4Ω 1.024 W 6.52 A 1.024 W 13.04 A 16 of max output power @ 4Ω 12.6 ETUh 133 call h 16 of max output power @ 4Ω 12.6 ETUh 133 call h 17 of max output power @ 4Ω 12.6 ETUh 133 call h 18 of max output power @ 4Ω 12.6 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 19.9 ETUh 133 call h 18 of max output power @ 4Ω 10.6 ETUh 133 call h 18 of max output power @ 4Ω 10.6 ETUh 133 call h 19 of max output power @ 4Ω 10.6 ETUh 133 call h 19 of max output power @ 4Ω 10.6 ETUh 133 call h 19 of max output power @ 4Ω 10.6 ETUh 133 call h 19 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power @ 4Ω 10.6 ETUh 133 call h 10 of max output power 10.6 ETUh 133 call h 10 of max output power 10.6 ETUh 133 call h 10 of max output power 10.6 ETUh 133 call h 10 of max output power 10.6 ETUh 133 call h 10 of	AC Mains P	ower								
Consumption / Current draw @ 280 V @ 815 V 164 16		Power supply	Universal, regulated switch mode							
Ide 37 W 0.3 A 37 W 0.6 A 1/4 of max output power @ 4Ω 1/2 of max output power @ 4Ω 1/2 of max output power @ 4Ω 1/2 of wax output power		Operating voltage / Inrush current	-							
18 of max output power @ 4Ω 530 W 3.54 M 530 W 7.A 18 of max output power @ 4Ω 10.24 W 6.52 A 10.24 W 13.04 A 18 of max output power @ 4Ω 10.24 W 6.52 A 10.24 W 13.04 A 18 of max output power @ 4Ω 52.92 BTU/h 32 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 32 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 52.92 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 23.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 53.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 53.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 53.8 kcal/h 18 of max output power @ 4Ω 53.90 BTU/h 53.90 BTU/h 53.90 BTU/h 53.90 BTU/h 18 of max output power @ 4Ω 53.90 BTU/h 53.90 BTU		Consumption / current draw	@ 230 V			@ 115 V				
Thermal Emironmental operating temperature		Idle	37 W 0.3 A		A	37 W 0.6 A				
Thermal Environmental operating temperature Thermal dissipation Fan, continuously variable speed, temperature controlled, front to rear airflow 16 8 TU/h 18 6 TU/h 18 6 TU/h 19 55 TU/h 13 kcal/h 14 of max output power @ 4 0 S2 68.30 d8.28 d8. 26 d8. 24 d8. 22 d8. 20 d8. 18 d8. 14 d8. 4 d8.		I/8 of max output power @ 4 Ω	530 W 3.54 A		A	530 W	7 A			
Environmental operating temperature Fan. continuously variable speed, temperature controlled, front to rear airflow 12.6 aTUh 12.6 aTUh 13.3 keath 13.5 keath 1		I/4 of max output power @ 4 Ω	1,024 W	6.52	. A	I,024 W	13.04 A			
Environmental operating temperature Fan. continuously variable speed, temperature controlled, front to rear airflow 12.6 aTUh 12.6 aTUh 13.3 keath 13.5 keath 1	Thermal									
Thermal dissipation Fan continuously variable speed, temperature controlled, front to rear airflow 1/6 max output power @ 4 Ω 5.29 BTU/h 31 kca/h 32 kca	THEITHAI	Environmental operating temperature	0° - 45° € / 37° - 113° F							
Ide										
Mode		·								
Audio Sain										
Audio Sain 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 - 20 kHz (1W @ B Ω, ± 3 dB) SN ratio (amplifier section) >11 dBA (20 Hz - 20 kHz, A weighted) Croststalk separation >70 dB @ 18 lb± Input sensitivity @ 8 Ω 2,13 v/ 8 d dbu Max input level 6 V/ 177 dBu Input impedance 10 kΩ THO+N / SMPTE IMD 5 0,07% @ 1/2 of full power THO+N / SMPTE IMD 5 0,07% @ 1/2 of full power 40 Vius @ 8 Ω input filter bypassed DM100 IMD 5 vp. <0005% (~0.00% @ ~0.01 W) Siew rate 40 Vius @ 8 Ω input filter bypassed DSP(optional) AD converter C55381, 2 channels, 24 bit / 48 kHz, 120 dB SNR THO										
Gain 32 d8, 30 d8, 28 d8, 24 d8, 24 d8, 24 d8, 24 d8, 44 d8, 48, 48, 48, 48, 48, 48, 48, 48, 48, 4		1/4 of max output power @ 4 Ω		935 B1U/h		236 kca	I/h			
Frequency response 10 Hz - 30 kHz (1 W @ 8 Ω - 13 dB)	Audio									
SIN ratio (amplifier section) I d8A (20 Hz. 20 kHz. A weighted)		Gain	32 dB, 30 dB, 28 dB, 26	dB, 24 dB, 22 dB, 20 dE	3, 18 dB, 14 dB, 4 dB, -∞,	user selectable				
Crosstalk separation 370 dB @ 1 kHz		Frequency response	10 Hz - 30 kHz (1 W @	8Ω , $\pm 3 dB$)						
Input sensitivity @ 8 Ω 2.13 V / 8.8 dBu Max imput level 6V / 177 dBu Input impedance 10 kΩ THD-N / SMPTE IMD 5 0.07% @ 1/2 of full power DIMIO0 IMD 5p. < 0.005% (< 0.02% @ >0.1 W) Siew rate 40 V/us @ 8 Ω input filter bypassed Damping factor @ 8 Ω >5000 @ 100 Hz DSP (optional)		S/N ratio (amplifier section)	>11 dBA (20 Hz - 20 kHz, A weighted)							
Max input level 6 V / 177 dBu 10 kΩ 1		Crosstalk separation	>70 dB @ 1 kHz							
Input impedance Io k Ω		Input sensitivity @ 8 Ω	2.13 V / 8.8 dBu							
THD+N / SMPTE IMD		Max input level	6 V / 17.7 dBu							
THD+N / SMPTE IMD		-	10 kΩ							
DIM 100 IMD typ. <0.005% (<0.02% @ >0.1 W)										
Siew rate Damping factor @ 8 Ω Solo @ 100 Hz A/D converter D/A converter D/A converter C52381, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB THz - 22 kHz THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB THz - 22 kHz THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB THz - 22 kHz THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB THz - 22 kHz THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR THD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94398, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C943998, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C943999, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C943999, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C943999, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 bit / 48 kHz, 120 dB SNR ThD C94399, 2 channels, 24 b										
Damping factor ⊗ 8 Ω S5000 ⊗ 100 Hz										
DSP (optional) A/D converter CS5381, 2 channels, 24 bit / 48 kHz, 120 dB SNR D/A converter CS4398, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB 7 + 2 - 22 kHz THD 2 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonía Pro Audio Suite™ Delay for time alignment 10 ms per output Crossover filters Output equalizer up to 12 biquad fully parametric per channel; peaking, hi/lo shelving, hi/lo pass, band pass, band stop, all pass; support for custom Filt filters up to 168 taps per channel (useful for /> > 700 Hz) Input equalizer up to 5 biquad filters (PEQ, shelving, band pass, band atop, all pass) Limiters Peak limiters (PEQ, shelving, band pass, band stop, all pass) Limiters Damping control 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 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls Maintenance Dust filter foam behind front panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors Network data port Ethernet DSP preset selection 1 x 94.5 bit activity LED with 2 rotary address switches DSP preset selection 1 x 94.5 bit activity LED with 2 rotary address switches DSP preset selection 1 x 94.5 bit activity LED with 2 rotary address switches Aux voltage 1 x 2 pushbutton (stepping through bank of 4 presets) 1 x 4 LED preset indicators 1 x 1 km 5 witch, linking analog inputs 1 & 2 Construction Dimensions W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1" Chasis Um m (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole protection, steel sid reinforcement & rear support										
A/D converter D/A converter CS538/, 2 channels, 24 bit / 48 kHz, 120 dB SNR Frequency response @ -3 dB 7 Hz - 22 kHz THD < 0.01% (20 Hz - 20 kHz) Presets Bank of 4 presets, management and upload via Armonia Pro Audio Suite™ Delay for time alignment Crossover filters Delay for time alignment Crossover filters Delay for time alignment Um sper output Crossover filters Dutput equalizer Up to 12 biquad filily parametric per channel; peaking, hilfo shelving, hilfo pass, band pass, band stop, all pass; support for custom filk filters up to 168 taps per channel (useful for /> 700 Hz) Input equalizer Up to 5 biquad filters (PEQ, shelving, band pass, band stop, all pass) support for custom filt filters up to 18 biquad filters (PEQ, shelving, band pass, band stop, all pass) Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter Damping control System Delay Up to 17 bm for 2 IN/2 OUT or 340 ms for 1 IN/2 OUT Front Panel Indicators 4 LEDs per channel: 3 x green, 1 x red 2 status LEDs: 1 x green, 1 x red 2 status LEDs: 1 x green, 1 x yellow Controls I stepped level attenuator pot per channel; mains switch Maintenance Dust filter foam behind front panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 2 x Neutrik® Speakon NLHMD, 2 x Neutrik® XLR male hard-wired to the corresponding input Network data port Ethernet I x R/45 with activity LED with 2 rotary address switches DSP preset selection I x Pushbutton (stepping through bank of 4 presets) 1 x + LED preset indicators ALX voltage AC mains Controls I x 1 kH s mm / 1 RU, D 358 mm / 1 4, 1" Chassis Umensions 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 protection, steel sid reinforcement & rear support	DCD /+:		>3000 @ 100 HZ							
D/A converter Frequency response @ -3 dB 7 Hz - 22 kHz THD	DSF (option	•	CC5201.2 1 2411	. / 40 LLL 120 ID CNID						
Frequency response @ -3 dB THD										
THD Construction Construction										
Presets 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, fi/lo shelving, hi/lo pass, band stop, all pass; support for custom FIR filters up to 168 taps per channel (useful for f > 700 Hz) Input equalizer up to 55 biquad filters (PEQ, shelving, band pass, band stop, all pass) Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter Damping control < 120 Hz. range ± 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 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 behind front panel Rear Panel Audio signal input connectors 2 x balanced Neutrik® XLR female Loudspeaker output connectors 2 x Neutrik® pseakon NL4MD, 2 x Neutrik® XLR male hard-wired to the corresponding input Network data port Ethernet 1 x R]45 with activity LED with 2 rotary address switches DSP preset selection 1 x Pushbutton (stepping through bank of 4 presets) x 4 LED preset indicators Aux voltage 1 x 2-pin Phoenix type MC 1.5/2-5T-3.8 AC mains IEC 211 6 A connector; AC mains cord with 3-pin plug 15 A for US, IEC Schuko 16 A for every other nation Controls 1 x link switch, linking analog inputs 1 & 2 Construction 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 protection, steel sid reinforcement & rear support										
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First filters up to 168 taps per channel (useful for f > 700 Hz) Input equalizer		Crossover filters	Butterworth, Linkwitz-R	Riley, Bessel, 6 dB/oct to	o 48 dB/oct					
Limiters Peak limiter, RMS limiter, frequency dependent RMS limiter		Output equalizer	up to 12 biquad fully parametric per channel: peaking, hi/lo shelving, hi/lo pass, band pass, band stop, all pass; support for custom							
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Controls Maintenance Dust filter foam behind front panel Audio signal input connectors Loudspeaker output connectors Network data port Ethernet DSP preset selection Aux voltage Aux voltage AC mains Controls Dimensions W 483 mm / 19", H 44.5 mm / 1 RU, D 358 mm / 14.1" Loudspeaker output connectors I stepped level attenuator pot per channel; mains switch Dust filter foam behind front panel Aux Remale Aux Remale Aux Network data port Ethernet I x RJ45 with activity LED with 2 rotary address switches DSP preset selection I x Pushbutton (stepping through bank of 4 presets) I x 4 LED preset indicators Aux voltage AC mains Controls I x link switch, linking analog inputs 1 & 2 Construction 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 protection, steel side reinforcement & rear support		Indicators	, , , , , , , , , , , , , , , , , , , ,							
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Chassis I mm (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole protection, steel sid reinforcement & rear support	Construction									
reinforcement & rear support										
Weight 7.3 kg / 16 lb		Chassis	I mm (0.04") steel chassis and steel removable dust cover, 3 mm (0.12") steel front panel, screw hole protection, steel side reinforcement & rear support							
		Weight	7.3 kg / 16 lb							

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

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²⁾ External high-pass filter required.