

LiteMod 4HC

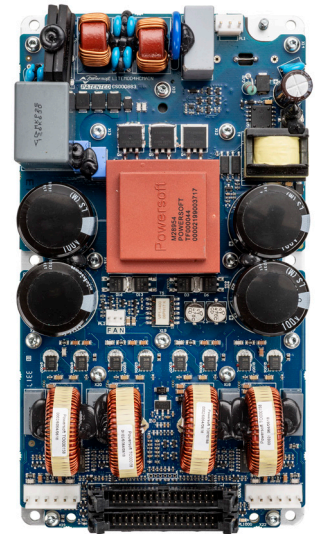
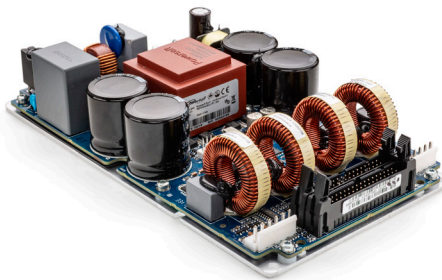
Flexible 4-channel 2400W amplifier module



LiteMod 4HC is an extremely versatile amplification platform integrating PFC equipped power supply for universal mains operation and 4 output stages delivering up to 2400W total.

LiteMod 4HC boosts flexibility, being configurable as four, three, two channels, or single high power output channel and supporting 2Ω operation. It can be used in high channel count applications such as: three way and two way designs, subwoofer + satellite systems, and multichannel rack amplifiers.

The pristine sonic performance is obtained in conjunction with the ease of use, in a compact solution.

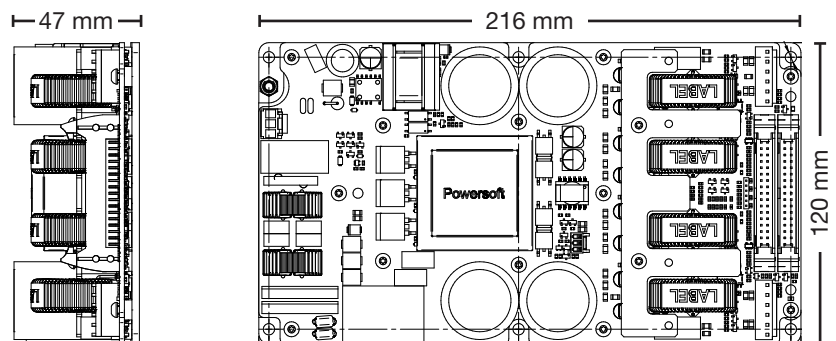


- ▶ Active Loudspeakers
- ▶ 3-Way Line Arrays
- ▶ Single Drive Subwoofers
- ▶ High Power Studio Monitors
- ▶ Sub + 2-way Satellites
- ▶ 2/4/8 channel OEM Rack Amps

- ▶ Thermal protections
(Power limiting - Thermal shutdown)
- ▶ Short-circuit/overload/high frequency output protections
- ▶ Auxiliary output voltages
- ▶ Mute command
- ▶ Standby switch
- ▶ Optional DSP board

Output Power	
Maximum output power per channel @ 4Ω	4 x 750W @ 4Ω
Maximum output power per channel - 3 Channel Mode	1 x 1400W @ 8Ω BTL + 2 x 750W @ 4Ω
Maximum output power per channel - 2 Channel Mode	2 x 1400W @ 8Ω BTL or 2 x 1400 W @ 2Ω PTL
Maximum output power - PBTL	1 x 2400W 4Ω
Max Output Voltage and Current	
Single Ended	78 V _{peak} / 30 A _{peak}
BTL	156 V _{peak} / 30 A _{peak}
PBTL	156 V _{peak} / 60 A _{peak}

- ▶ Efficiency and robustness, always and everywhere
 - ✓ Powersoft switching mode technology grants reliability, robustness and attention to detail. Accurate design of the Pulse Width Modulation block offers maximum performance, high predictability and immunity from intermodulation artifacts.
- ▶ Maximize performances, minimize consumption
 - ✓ automatic mains voltage selector for world wide operation;
 - ✓ latest generation single-stage patented Power Factor Correction;
 - ✓ 0.5 W low standby power consumption.
- ▶ Complete set of protections
 - ✓ thermal shutdown;
 - ✓ short circuit and overload protection;
 - ✓ stationary high frequency protection.
- ▶ Compactness
 - ✓ power supply, output stage and connectors are all included in a single, compact, lightweight chassis.



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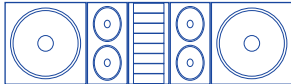
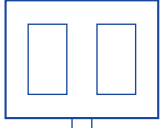
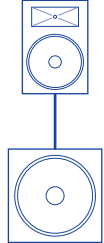
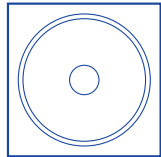
Flexible 4-channel 2400W amplifier module

Specifications

General		AC Mains Power	
Maximum output power per channel @ 4Ω	750 W	Power supply	Universal input, regulated Switch Mode with PFC
Maximum output power per channel @ 8Ω	400 W	Nominal voltage	100-240 V AC @ 50-60Hz
Maximum output power @ 8Ω bridge mode	1400 W	Operating Voltage	85-264 V AC
Maximum output power @ 2Ω parallel mode	1400 W	Power Factor	cos(φ) > 0.9 @ 4 Ω full power
Maximum output power @ 4Ω parallel bridge mode	2400 W	Consumption	
Maximum total power all channels driven	2400 W	Standby	< 1 W (with an aux load < 100 mW)
Max Output Voltage and Current		Idle	≤ 10.2 W @ 100-240 V AC
Single Ended	78 V _{peak} / 30 A _{peak}	Rated Load (1/4 Max Power)	600 W
BTL	156 V _{peak} / 30 A _{peak}	AC Current	Nominal 7 A Max 25 A
PBTL	156 V _{peak} / 60 A _{peak}	Inrush Current (230 V AC)	41 A _{peak}
Audio		Thermal & Environment	
Gain	26 dB	Operating temperature & Humidity	-20° to 65° C, 0 to 90% Non condensing
Frequency Response (±1 dB , 1 W @ 8 Ω)	10 Hz - 30 kHz	Thermal Dissipation	Cooling Plate + Optional Variable Speed Fan
S/N (20 Hz - 20 kHz A-Weighted @ 8 Ω)	Typical > 115 dB	Current Draw @ 230 V	2.2 A _{rms}
Noise Floor	Typical -80 dBV (A)	1/8 Max Output Power @ 4Ω	Thermal Loss @ 230 V 241 BTU/h
Crosstalk Separation (1 kHz)	Typical > 80 dB	Current Draw @ 115 V	4.0 A _{rms}
Input sensitivity	11 dBu	Thermal Loss @ 115 V	251 BTU/h
Input impedance	4.5 kΩ balanced	Vibration	EN 60068-2-64: 2008 (Random Test) EN 60068-2-27:2009 (Shock Test)
THD+N (from 0.1 W to 1/2 Power)	< 0.08% (typical < 0.05%)	EMC immunity	EN 55103-2: 2009 EN 55035: 2017
DIM (from 0.1 W to 1/2 Power)	< 0.2% (typical < 0.05%)	EMC emissions	EN 55032: 2015
Damping Factor	> 500 @ 1 kHz	EMC other	EN 61000-3-2: 2014 EN 61000-3-3: 2013
Aux Supplies		Safety standards	IEC 60065:2014
Max aux supply current draw @ +12 V	1000 mA	Construction	
Max aux supply current draw @ -12 V	300 mA	Dimensions	216 x 120 x 47 mm
Max aux supply current draw @ +5V	50 mA	Weight	1100 g
Fan plug - 12V Fan	200 mA		

Application Examples

Please note that the following configuration examples do not cover all possible applications. Power ratings could vary depending on acoustic design and speaker specifications. Contact Powersoft for support in selecting the ideal solution for your specific needs.

3-way line array	multi channel OEM amplifier	sub + 2-way satellite	sub
			
HF: 400 W @ 8Ω		HF: 400 W @ 8Ω	
MF: 750 W @ 4Ω	8 x 750 W @ 4Ω	MF: 750 W @ 4Ω	
LF: 2 x 750 W @ 4Ω		LF: 1400 W @ 8Ω BTL	LF: 2400 W @ 4Ω PBTL