



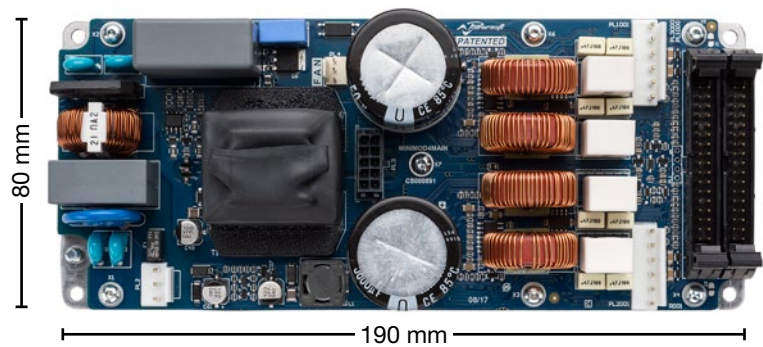
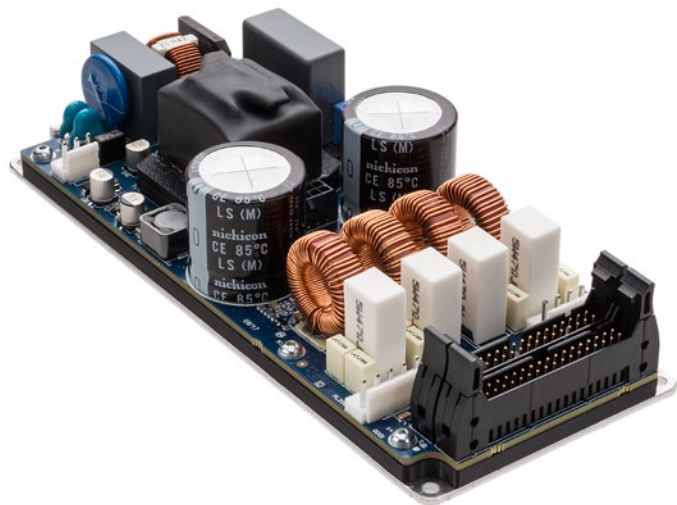
MiniMod 4

Compact and Flexible 4 x 150W Amplification Platform

MiniMod is an integrated module offering universal mains switching mode power supply with PFC and a total of 600W of audio amplification.

MiniMod boosts flexibility, being configurable as four, three, two channels, or single high power output channel. It can be used in high channel count applications, three way and two way designs, subwoofer + satellite systems.

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



- ▶ fixed frequency PWM modulator with multiple feedback for maximum performance, high predictability and immunity from intermodulation artifacts
- ▶ worldwide operation mains voltage power supply with PFC
- ▶ low standby power consumption
- ▶ smart rails management to optimise consumption and reduce heat
- ▶ auxiliary output voltages
- ▶ output short circuit protection
- ▶ thermal shutdown with monitor output

FIXED
switching
frequency

SRM

PFC

DSP
optional

Armonía
Pro Audio Suite™

4 Channel Mode	4 x 150W @ 4Ω
3 Channel Mode	1 x 300W @ 8Ω BTL + 2 x 150W @ 4Ω
2 Channel Mode	2 x 300W @ 8Ω BTL or 2Ω PTL
1 Channel Mode	1 x 600W 4Ω PBTL
Max Output Voltage and Current	
Single Ended	35 V _{peak} / 10 A _{peak}
BTL	70 V _{peak} / 10 A _{peak}
PBTL	70 V _{peak} / 20 A _{peak}

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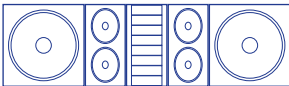
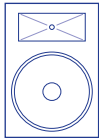
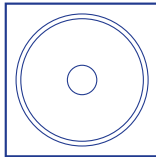
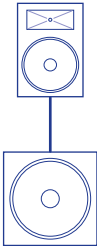
Specifications

General	
Output Power, 1% THD	
4 Channel Mode	4 x 150W @ 4Ω
3 Channel Mode	1 x 300W @ 8Ω BTL + 2 x 150W @ 4Ω
2 Channel Mode	2 x 300W @ 8Ω BTL or 2 x 300W 2Ω PTL
1 Channel Mode	1 x 600W 4Ω PBTL
Max Output Voltage and Current	
Single Ended	35 V _{peak} / 10 A _{peak}
BTL	70 V _{peak} / 10 A _{peak}
PBTL	70 V _{peak} / 20 A _{peak}
Audio	
Gain	26 dB
Frequency Response (±1 dB, 1 W @ 8 Ω)	10 Hz - 30 kHz
Noise Floor	-80 dBV (A)
Crosstalk Separation (1 kHz)	> 70 dB
Input sensitivity	4 dBu
Input impedance	13 kΩ balanced
THD+N (from 0.1 W to 1/2 Power)	< 0.1% (typical < 0.05%)
DIM (from 0.1 W to 1/2 Power)	< 0.1% (typical < 0.05%)
Construction	
Dimensions	190 x 80 x 41 mm
Weight	500 g
AC Mains Power	
Power supply	Universal input, regulated Switch Mode with PFC
Nominal voltage (±10%)	100-240 V AC @ 50-60Hz
Operating Voltage	85-264 V AC
Power Factor	cosφ > 0.9 @ 4 Ω full power
Consumption	
Standby	< 0.5 W
Idle	< 10 W
Rated Load (1/4 Max Power)	150 W
AC Current	Nominal 1.5 A Max 7 A
Inrush Current	TBD
Aux Supplies	
Max aux supply current draw @ +12 V	800 mA
Max aux supply current draw @ -12 V	200 mA
Max aux supply current draw @ +5V	50 mA
Fan plug - 12V Fan	100 mA
Thermal & Environment	
Operating temperature & Humidity	-20° to 65° C, 0 to 90% Non condensing
Thermal Dissipation	Cooling Plate + Optional Fan @ 230 V
1/4 Max Output Power @ 4Ω	TBD
	@ 115 V
1/4 Max Output Power @ 4Ω	TBD
Vibration	ETSI EN 300 019-2-2
EMC immunity	EN 55103-2
EMC emissions	EN 55103-1
Safety standards	IEC 60065

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	2-way	Bass Amp	sub + full range sat
			
HF: 150 W @ 4Ω			
MF: 150 W @ 4Ω	MF/HF: 300 W @ 8Ω BTL		MF/HF: 300 W @ 8Ω BTL
LF: 2 x 150 W @ 4Ω	LF: 300 W @ 8Ω BTL	LF: 600 W @ 4Ω PBTL	LF: 300 W @ 8Ω BTL