

PPM1012

Featuring 800W + 800W peak Class-D, Fast Recovery™ power amplifiers, a full eight mono mic/line channels each with 3-band Perkins EQ and sweepable mid and two stereo channels each with 4-band Perkins EQ, the PPM1012 is the flagship mixer of the Mackie PPM series.

The PPM1012 is equipped with two 32-bit RMFX+™ processors, each featuring 24 effects with tap delay, dual 9-band graphic EQ (one for mains, one for monitors) and dedicated in-line compressors on the first six channels.

Each mono channel has a premium Mackie mic preamp, an input Gain control with 50 dB of gain, a 100 Hz Low Cut filter, two Aux/Mon sends and two Aux/FX sends, Pan, Mute, Solo, a 60mm fader and a Channel Insert jack for connecting an external processor.

There are built-in DIs on channels seven and eight for direct connection of guitars or bass, a 1/4-inch stereo footswitch jack for muting effects and a switchable subwoofer output with variable low-pass frequency.

Other features include +48V phantom power, a stereo tape input and output, a 1/4-inch stereo headphone jack, stereo 12-segment LED meters, BNC lamp socket and XLR and TRS stereo (and mono) output jacks.

Despite its large channel count, the PPM1012 is ultra-light and rack-mountable. Plus, it's a Mackie which means it is "Built-Like-A-Tank" and will survive years of abuse.

APPLICATIONS

Live sound mixing, houses of worship, clubs, gymnasiums, banquet halls, conference rooms, boardrooms, multitrack studio and field recording, video post-production, multimedia applications, broadcast, and many, many more.

FEATURES:

- Full-featured 12-Channel, 1600W Powered Desktop Mixer with onboard effects
- 800W + 800W peak Mackie designed Class-D, Fast Recovery™ power amplifiers
- Dual 32-bit RMFX+™ processors featuring 24 "Gig Ready" reverbs, choruses, and tap delay



- Eight mic/line mono inputs and two stereo line inputs with 4-segment LEDs
- Mackie high-headroom, low-noise mic preamps with RF rejection and switchable 48V phantom power
- Six dedicated In-line Compressors
- 3-Band channel EQ with a Mid sweep (100 Hz – 8 kHz) on mono channels and 4-band EQ on stereo line channels 9/10 and 11/12
- DI inputs for direct instrument connections on channels 7 and 8
- Four aux sends – two Mon and two FX
- Dual 9-Band graphic EQs on the Mains and Monitor outputs
- Mono output with level control and low pass filter adjustable from 75 Hz – 100 Hz
- 3-Mode two-channel Amplifier, switchable as Mains Stereo L/R, Mono Mains/Monitor 1, or Mon 1 and Mon 2
- Precision Passive EQ for enhanced clarity and low-frequency response with Mackie passive loudspeakers
- 12v BNC lamp Jack
- Built-like-a-tank metal chassis with a handle built into the front of the mixer for easy transport
- Rack ears included
- Lightweight and portable (29 lb / 13 kg)

PPM1012 SPECIFICATIONS

Noise Characteristics

Equivalent Input Noise (EIN), mic input, 150 Ω source impedance, 20 Hz to 20 kHz	-128 dBu
(1 kHz, 30 kHz bandwidth)	
Main mix level down, all channel levels down	-95 dBu
Main mix level 0 dB, all channel levels down	-89 dBu
Main mix level 0 dB, all channel levels 0 dB	-84 dBu
Gain	
Mic mono input	0 dB to +50 dB
Line mono inputs	-20 dB to +30 dB
Line stereo inputs	-20 dB to +20 dB

Frequency Response

Mic mono input (+0 / -3 dB)	<10 Hz to 100 kHz
Line mono inputs (+0 / -3 dB)	<10 Hz to 32 kHz
Line stereo inputs (+0 / -3 dB)	<10 Hz to 80 kHz

Distortion (THD+N)

(1 kHz, 30 kHz bandwidth)	
Mic mono	<0.003%
Line mono	<0.005%
Line stereo	<0.003% at main out

Maximum Input Levels

Mic mono input	+21 dBu minimum gain
Line mono inputs	+21 dBu
Line stereo inputs	+21 dBu

Maximum Output Levels

Preamp main and monitor outputs	+21 dBu
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Loudspeaker Outputs

(Both channels loaded and driven at 1 kHz)	
Peak output power @ 4 Ω	2 x 800 W peak
RMS output power @ 4 Ω	2 x 400 W rms, 1% THD 2 x 500 W rms, 3% THD
RMS output power @ 8 Ω	2 x 250 W rms, 1% THD 2 x 300 W rms, 3% THD
Recommended load impedance	4 – 8 Ω per channel

Equalization

High Shelving (all channels)	± 15 dB @ 12 kHz
Mid Mono Channels	
Mid Peaking, sweepable	± 15 dB
Mid sweep range	100 Hz to 8 kHz
Mid Stereo Channels	
Hi Mid Peaking	± 15 dB @ 2.5 kHz
Lo Mid Peaking	± 15 dB @ 400 kHz
Low Shelving (all channels)	± 15 dB @ 80 Hz
9-Band Graphic EQ	± 15 dB @ 63, 125, 250, 500, Main and Monitor 1
	1k, 2k, 4k, 8k and 16 kHz

Digital Effects

Processor	Two 32-bit
I/O	Mono input / Stereo output
Number of presets	24

Impedances

Mic mono input	3.6 k Ω balanced
Line mono input	20 k Ω balanced
Line mono input, Ch 7, 8 Hi-Z	500 k Ω unbalanced
Line stereo inputs	20 k Ω balanced
Main and monitor outputs	240 Ω balanced 120 Ω unbalanced

PPM1012 SPECIFICATIONS continued...**AC Power Requirements**

US	100 – 120 VAC, 50 – 60 Hz, 250W
EU	200 – 240 VAC, 50 – 60 Hz, 250W
AC Connector	3-pin IEC 250 VAC
Operating Temperature	0° – 40°C 32° – 104°F

Physical Properties (packaged product)

Height	11.5 in / 292 mm
Width	24.0 in / 610 mm
Depth	24.5 in / 622 mm
Shipping Weight	41.0 lb / 18.6 kg

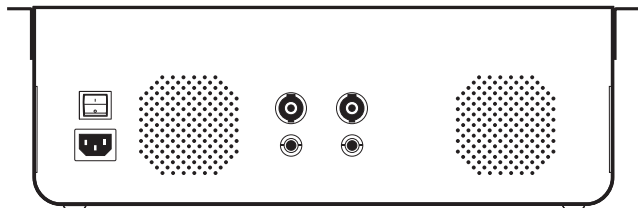
Physical Properties (product)

Height	5.2 in / 133 mm
Width	17.4 in / 442 mm
Depth	19.2 in / 487 mm
Net Weight	29.0 lb / 13.2 kg

Ordering Information

PPM1012 12-Channel Professional Powered Mixer, US	P/N 0026941-00
PPM1012 12-Channel Professional Powered Mixer, EU	P/N 0026941-01

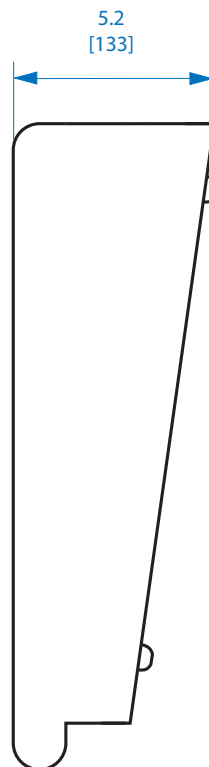
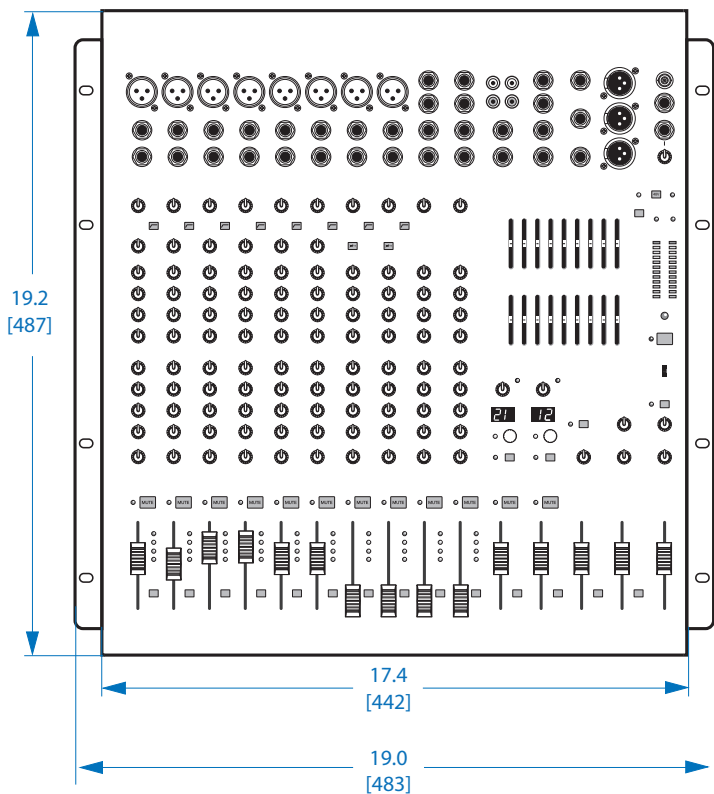
PPM1012 DIMENSIONS



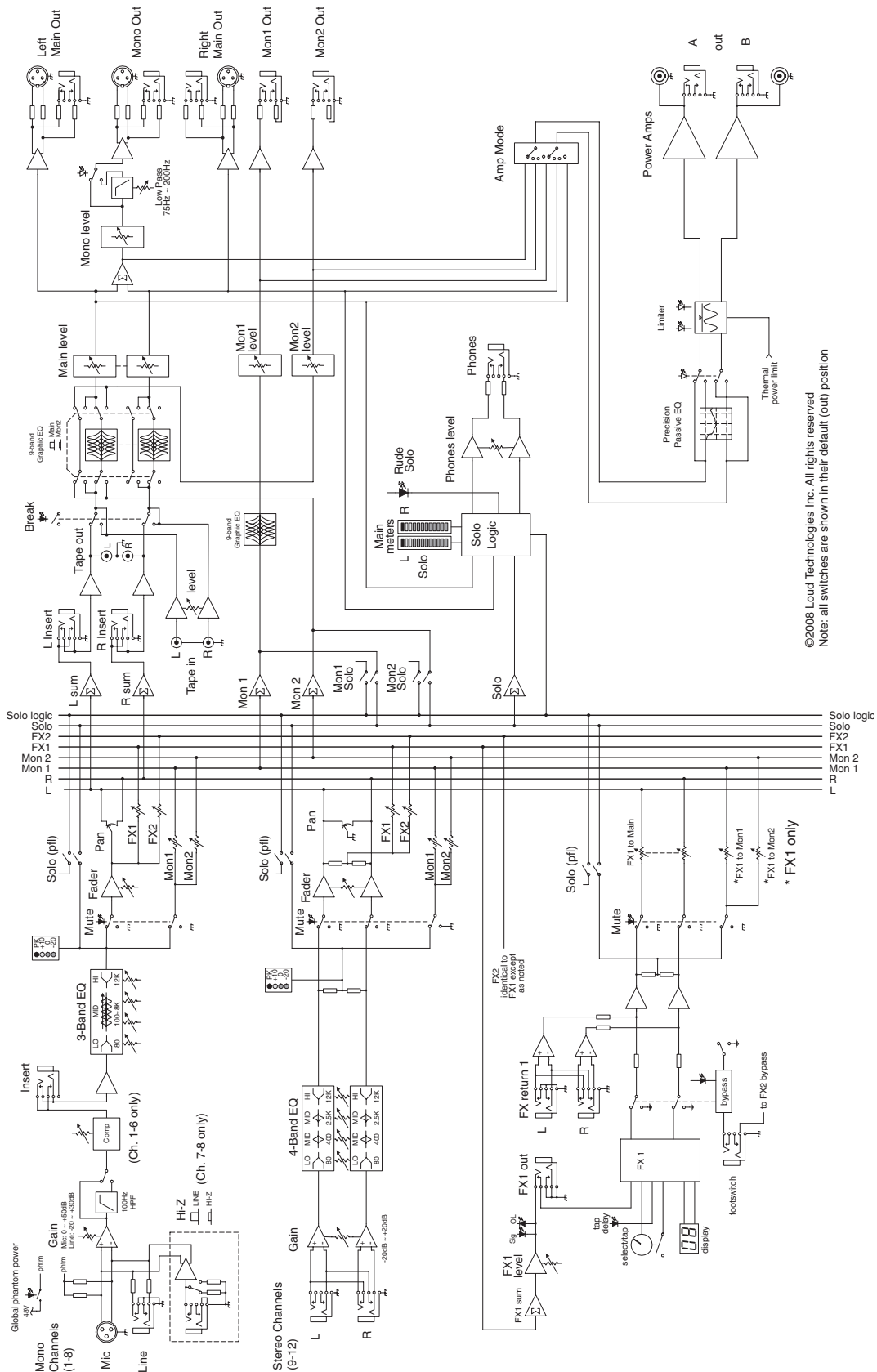
NOTES:

1. WEIGHT APPROX. 29.0 lb [13.2 kg].
2. SHIPPING WEIGHT APPROX. 41.0 lb [18.6 kg].

UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES. DUAL [MM] DIMENSIONS FOR REF ONLY

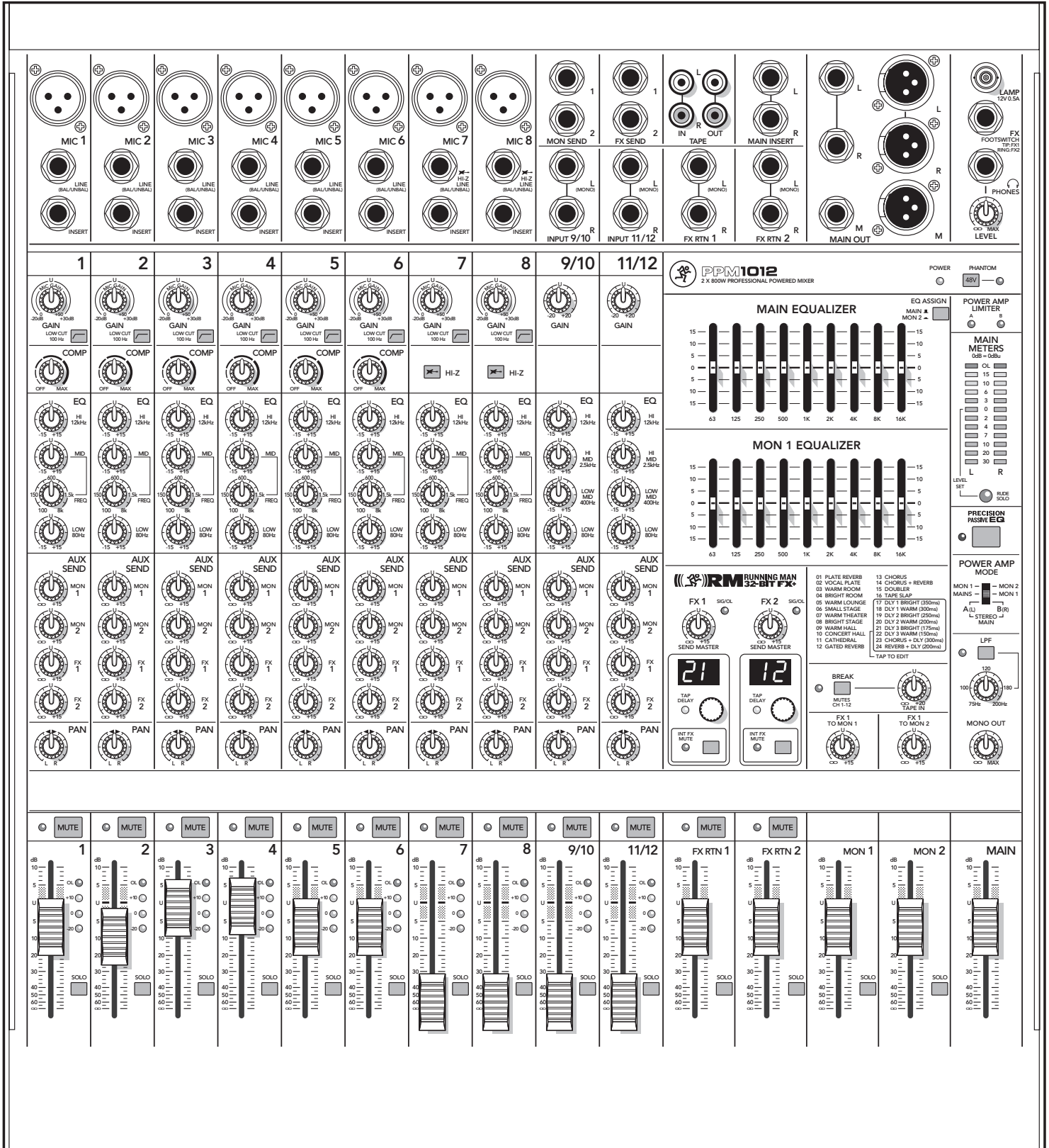


PPM1012 BLOCK DIAGRAM

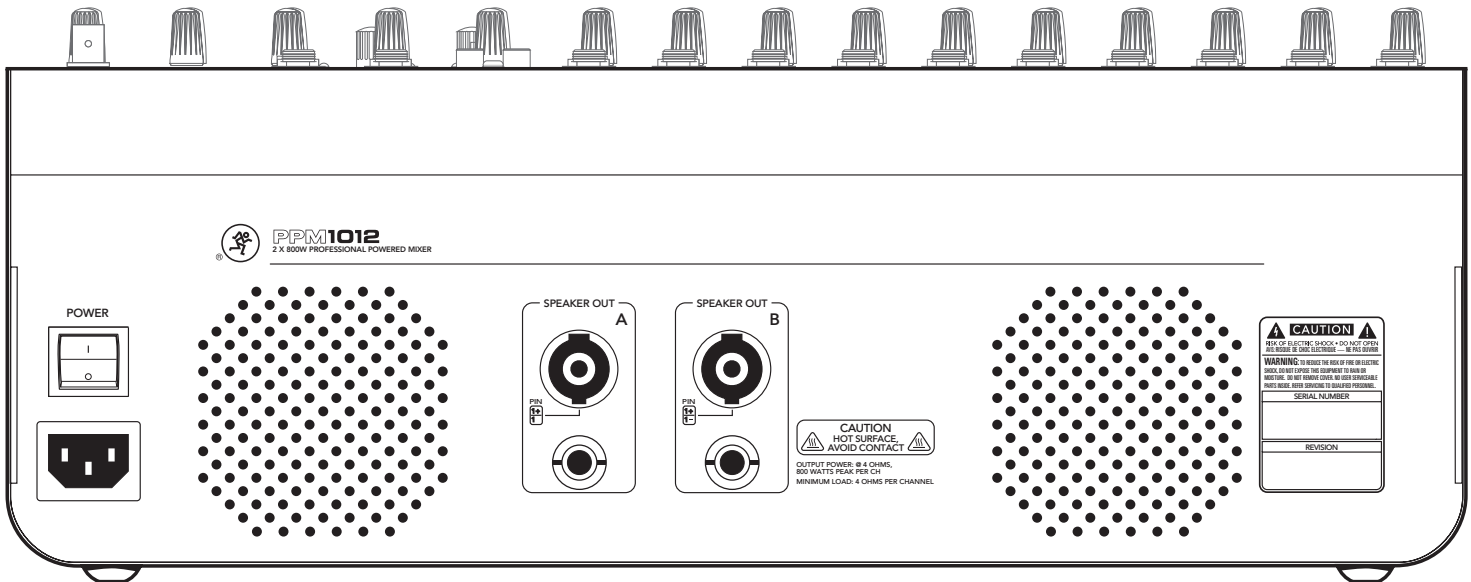


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 Note: all switches are shown in their default (out) position

PPM1012 FRONT PANEL



PPM1012 REAR PANEL



Electronic files for this product are available at:

www.mackie.com

Specification Sheet

PPM1012_SS.PDF

Owner's Manual

PPM1012_OM.PDF

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