

PLM-4Px2x PLENA matrix DSP Amplifiers

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- ▶ 4-channel, Class D power amplifier
- ▶ 100V/70V/8Ω/4Ω outputs
- ▶ Complete loudspeaker processing DSP with input mixing; controlled by PC GUI and iOS app
- ▶ Amp Link to connect easily with PLM-8M8
- ▶ Environmentally friendly auto standby mode

The PLM-4Px2x PLENA matrix Amplifiers are built to perform. Designed to be reliable, cost effective, multi channel amplifiers; they are suitable for almost any application that demands high quality audio and flexible control.

The built-in DSP processor is packed with powerful features. The loudspeaker library will allow the easy tuning of Bosch/EV/Dynacord loudspeaker products. The power saving mode on the amplifier allows the amplifier to save over 80% of its running costs when areas are not being used. Equipped with "Amp Link", combining both the PLM-4Px2x amplifiers with the PLM-8M8 8 Channel DSP Matrix Mixer couldn't be easier.

Một số ứng dụng cơ bản bao gồm: Trung tâm mua sắm, trường học, nhà hàng, quán bar, hộp đêm, quán cà phê, phòng tập thể thao, cơ sở giải trí, nhà thờ, nhà kho, tòa nhà văn phòng, sân bay nội vùng, ga tàu, trạm xe buýt, phòng họp ban giám đốc, phòng họp, cơ sở hội nghị, công viên chủ đề nhỏ, bảo tàng, hậu trường của trung tâm biểu diễn nghệ thuật và sân vận động thể thao.

Chức năng

Controls and indicators

The indicators on the front panel are; Signal/Clip, fault per channel and mains power. There are no controls on the front of the unit; this is to reduce the assistance from "overly helpful" venue staff. However,

on the rear of the unit there is attenuation for the 4 output channels, dip switches for changing the input sensitivity, bridging the amplifier channels; and the mains power switch. All other controls and indicators are available via the PC GUI software.

DSP features

The DSP features are accessed via the PC GUI software.

- Input Mixer: Each of the 4 amplifier channels has an separate input mixer. Via the PC GUI it is possible to mix any of the 4 line inputs and have level control over the override input and noise generator. Effectively creating a very powerful stand-alone mixer amplifier.
- Cross over: Provides HPF, LPF up to the 8th order for each channel.
- Output EQ: Every zone has a 8-band fully functional parametric EQ. It also contains the dynamic bass enhancement feature.
- Delay: Output delay for 120ms per channel.
- DRC (Dynamic Range Compressor): Threshold, ratio, attack, release, and gain per channel.
- Output level: Ability to limit an amplifier channels output.
- Output Level mixer: Each amplifier output is separately controlled on the one screen making it easy to adjust and operate.
- Fault and thermal indication per amplifier channel.
- Channel mute and system mute.

- Manual standby.
- Control via PC GUI and/or iOS control app. Third party control software can be used to control the output level mixer and standby modes over ethernet.

Dynamic Bass Enhancement

An area that is tuned well and sounds good at normal levels can sound thin when the volume is turned down. The Dynamic Bass Enhancement automatically gives a more full sound even at low SPL. When the zone is restored to the normal level the bass enhancement decreases proportionally to the restore the preset level and tuning.

Standby and auto standby mode

The standby mode reduces the environmental impacts and the running costs of owning power amplifiers, making it much more cost effective and environmentally friendly than other amplifiers. Standby can be engaged and disengaged manually via the PC GUI software, or with the addition of a Bosch motion detector it can become an “auto standby mode”. In zone(s) where activity has stopped the amplifier will automatically shift to a low power consumption mode after a pre determined time. When the area does become active again the amplifier simply restores to being fully active in under a second by ramping the background music back in smoothly. The amplifier also comes equipped with a 12 VDC power output, to make installation of motion detectors simple and easy.

Chứng nhận và Phê chuẩn

Safety	According to EN 60065
EMC emission	According to EN 55103-1
EMC immunity	According to EN 55103-2

Khu vực	Chứng nhận
Châu Âu	CE
	CE

Ghi chú Lắp đặt/Cấu hình

Connections and Amp Link

Inputs

The PLM-4Px2x amplifiers are equipped to be used with either TRS jack, 3 pin XLR or Phoenix Euroblock on each of the input channels. As these connections are wired in parallel; simply loop out via the connection that isn't being used as the input. In addition the Amp Link input makes connection to the PLM-8M8 DSP matrix mixer very easy. Simply connect the supplied CAT 5 cable to the Amp Link ports on each unit and it carries 4 channels of audio from the DSP matrix mixer to the amplifier. No set up or configuration required.

In addition there is an balanced line level override input that can activated by a contact closure. This input will override all the other inputs in the amplifier.

Output

Connections to 100V, 70V, 8 ohm and 4 ohm outputs are available for each channel. Outputs can be bridged channels 1-2 and/or 3-4 via dip switches. All output impedances and configurations are supported simultaneously. So as an example: Ch1-2 are bridged with a 4 ohm load, Ch3 has 100V and Ch4 has a 8 ohm load; This is all possible with no loss of performance.

Bộ phận Đì kèm

Quantity	Components
1	PLM-4P125 or PLM-4P220 Power Amplifier
1	Power cord
1	Set of 19"mounting brackets
1	CAT 5 cable 26 AWG shielded (1 m)
1	Safety documentation

Thông Số Kỹ Thuật

Electrical

Nguồn điện	
Điện áp lưới:	
• Điện áp vào danh nghĩa	100 - 240 VAC ±10%, 50/60 Hz
• Giới hạn điện áp vào	90 - 264 VAC
Công suất tiêu thụ (-6dB/nghi/chò):	
• PLM-4P125	254 W / 27 W / 6 W
• PLM-4P220	412 W / 36 W / 6 W
Hiệu suất	
Điện áp đầu ra định mức/trở kháng	100 V / 70 V / 8 ohm / 4 ohm
Công suất đầu ra định mức mỗi kênh (liên tục *):	
• PLM-4P125	130 W
• PLM-4P220	220 W
Công suất đầu ra định mức mỗi kênh (từng đợt *):	
• PLM-4P125	130 W
• PLM-4P220	220 W
Bắc cầu (CH 1-2 / 3-4) (liên tục *):	
• PLM-4P125	250 W
• PLM-4P220	385 W
Bắc cầu (CH 1-2 / 3-4) (từng đợt *):	

• PLM-4P125	250 W
• PLM-4P220	445 W
THD+N (1 kHz, 6 dBFS):	
• PLM-4P125	0,1 %
• PLM-4P220	0,03 %
Dải động (Trong số A):	
• PLM-4P125	>101 dB
• PLM-4P220	>102 dB
Hồi đáp tần số (-1dB)	65 Hz đến 20 kHz (+0/-3 dB)
Xuyên âm @ 1 kHz	<-70 dB

* Theo CEA-490-A R-2008

Đầu nối	
Đầu vào (nối song song):	<ul style="list-style-type: none"> • 4x XLR cân bằng 3 chốt • 4x Hộp đầu Phoenix cân bằng 3 cực (Metric) • 1x RJ45 (Amp Link)
• Đầu ra loa	4x Hộp đầu Phoenix 3 cực (Metric)
• Ghi đè logic và dự phòng	Hộp đầu Phoenix 2 cực (Metric)
Mạng Ethernet 10/100 Mbps	RJ45
Công suất đầu ra 12 V cho cảm biến chuyển động	Hộp đầu Phoenix 2 cực (Metric)

Mechanical

Kích thước (C x R x S)	90 x 440 x 417 mm 3,5 x 17,3 x 16,4 in (Rộng 19", Cao 2RU)
Lắp ráp	Độc lập, giá đỡ 19"
Màu	Đen (RAL 9017) Bạc (RAL 9006)
Trọng lượng:	
• PLM-4P125	Xấp xỉ 15 kg Xấp xỉ 33 lb
• PLM-4P220	Xấp xỉ 18 kg Xấp xỉ 39,7 lb

Environmental

Nhiệt độ hoạt động	từ -10 °C đến +45 °C
Nhiệt độ bảo quản	từ -40 °C đến +70 °C
Độ ẩm tương đối	<95%

Thông tin Đặt hàng

PLM-4P125 PLENA matrix 4 Channel DSP 125W Amplifier

Bộ trộn, bộ xử lý âm thanh kỹ thuật số, 4 kênh, 125 W. Số đặt hàng **PLM-4P125**

PLM-4P220 PLENA matrix 4 Channel DSP 220W Amplifier

Bộ trộn, bộ xử lý âm thanh kỹ thuật số, 4 kênh, 220 W. Số đặt hàng **PLM-4P220**

PLM-8M8 PLENA matrix 8 Channel DSP Matrix Mixer

Bộ trộn, bộ xử lý âm thanh kỹ thuật số, 8 kênh. Số đặt hàng **PLM-8M8**

PLM-8CS PLENA matrix 8 Zone Call Station

Bàn gọi, 8 vùng.
Số đặt hàng **PLM-8CS**

PLM-WCP PLENA matrix Wall Control Panel

Bảng điều khiển gắn tường, 8 vùng.
Số đặt hàng **PLM-WCP**

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