

Pannoy Professional Audio Products Datasheet

Contents

1. Professional Power Amplifier

- 1) M Series Class D Digital Power Amplifier-----Page2
- 2) XLi Series Professional Power Amplifier-----Page4
- 3) MA Series Professional Power Amplifier-----Page6
- 4) DT Series Professional Power Amplifier-----Page8



2. Professional Loudspeaker

- 1) PA Series Professional Loudspeaker-----Page10
- 2) PC Series professional Loudspeaker-----Page13



3. Professional Mixer

- 1) M Series Professional Mixer-----Page17
- 2) H Series Professional Mixer-----Page18



Datasheet

M Series Class D Digital Power Amplifier

M2300 (Two Channels)

M4300 (Four Channels)



Descriptions

Thanks to the latest technology on Class D amplification and Switching-mode Power Supply with Power Factor Correction, M Series digital amplifiers provide good sound quality, and reliability in 1 U rack format. There are two models in this series, M2300 with two channels and M4300 with four channels, and they are light, compact, powerful and high efficiency, suited for pubs, KTV rooms, conference rooms, small-scale outdoor performance and sport fields etc.

Stereo/Mono/Bridge modes can be selected

Adopt Class D amplification circuit

Fine design for cooling system

With XLR inputs and Speakon outputs

Two channel gain controls, power switch, power LED, Clip, signal,mono,bridge LED indicators

Protection against Short Circuit,Thermal,Overload,Clip Limiter,DC fault

Rear Panel



Specifications

Model		M2300	M4300
Output Power	8Ω Stereo	300Wx2	300Wx4
	4Ω Stereo	500Wx2	500Wx4
	8Ω bridge	1000W	1000Wx2
Channel		2 Channels	4 Channels
Amplifier Category		Class D	
Input Sensitivity		0.775V	
Mode Switch		Stereo/Bridge/Mono	
Input Impedance		20kΩ/Balanced, 10kΩ/Unbalanced	
Frequency Response		20Hz-20kHz(+0,-1dB)	
THD		<0.2%	
Slew Rate		>20V/μs	
S/N Ratio		>110dB	
Damping Factor		>300	
Crosstalk		>60dB	
Protection		Short Circuit, Thermal, Overload, Clip Limiter, DC fault protection	
Power Supply		AC220-240V, 50/60Hz	
Dimensions (W x D x H)		483 x 350 x 44mm	
Weight		4.9kg	6.2kg

Specifications are subject to change without notice

XLi Series Professional Power Amplifier

XLi1500/XLi2500/XLi3000/XLi3500



Descriptions

The XLi Series of power amplifiers from Pannoy are powerful, rugged and reliable. They are suited for musicians, DJs, and entertainers as well as houses of worship, discos, pubs, KTV rooms, conference rooms and outdoor performances etc.

The four models in the series are the XLi1500, XLi2500, XLi3000 and XLi3500. They are identical except for output power.

Features include RCA and XLR inputs, user selectable input sensitivity of 0.755V or 1.4V, Speakon® and binding post outputs, stereo/parallel/bridge mode, power/fault/signal presence/clip indicators, forced-air cooling, and protection against shorts, no-load, on/off thumps and radio-frequency interference.

Stereo/parallel/bridge mode

User selectable input sensitivity - 0.775V and 1.4V

Adopt optimized Class H circuit

Efficient forced-air cooling prevents excessive thermal buildup

With XLR & RCA inputs; binding post and Speakon outputs

Two channel gain controls, power switch, power LED, and six LEDs which indicate signal presence, clip and fault for each channel

Protection against shorts, no-load, on/off thumps and radio-frequency interference

Rear Panel



Specifications

Model		XLi1500	XLi2500	XLi3000	XLi3500
Output Power	8Ω Stereo	400Wx2	600Wx2	800Wx2	1000Wx2
	4Ω Stereo	600Wx2	900Wx2	1200Wx2	1350Wx2
	8Ω bridge	1200W	1800W	2300W	2700W
Voltage Gain		31dB	33dB	34dB	36dB
Input Sensitivity	0.775V/1.4V				
Mode Switch	Stereo/Bridge/Parallel				
Input Impedance	20kΩ/Balanced,10kΩ/Unbalanced				
Frequency Response	20Hz-20kHz(±0.1dB)				
THD	<0.5%, 20Hz - 20kHz				
Slew Rate	>20V/μs				
S/N Ratio	>100dB				
Damping Factor	>200 (8Ω,10Hz to 400Hz)				
Crosstalk	-60dB				
Cooling	Internal heat sinks with forced air.Fan cooled,speed regulated, thermal protection				
Protection	Protection against shorts, no-load, on/off thumps and radio-frequency interference				
Power Supply	AC220-240V,50/60Hz				
Dimensions (W x D x H)	483 x 320 x 89mm				483x370x89mm
Weight	13kg	14kg	15kg	19kg	

Specifications are subject to change without notice

MA Series Professional Power Amplifier

MA300/MA400/MA600/MA800/MA1000/MA1300



Descriptions

Adopt the optimized Class H circuit design and use traditional transformer power supply, MA Series power amplifiers provide good sound quality and reliability . There are six models in this series: MA300/ MA400/ MA600/ MA800/ MA1000/MA1300, and output power from 300W(8Ω Stereo) to 4600W(4Ω bridge), and they are excellent, powerful and high efficiency, Suitable for high-end pubs, clubs etc. entertainment places, outdoor performances, stadia and arenas etc.

Stereo/Parallel/Bridge mode can be selected

Adopt optimized Class H amplification circuit

Quality components, full range electronic circuit protection

Input Sensitivity 0.775V

Dual variable speed fans, high efficiency cooling system

With XLR inputs, binding post and Speakon outputs

Two channel gain controls, power switch, power LED, signal, Clip, Protect LED indicators

Protection on Short Circuit, Thermal, Overload, Clip Limiter, DC Fault, AC fuse, Soft-start

Rear Panel



Specifications

Model		MA300	MA400	MA600	MA800	MA1000	MA1300
Output Power	8Ω Stereo	300Wx2	400Wx2	600Wx2	800Wx2	1000Wx2	1300Wx2
	4Ω Stereo	450Wx2	600Wx2	900Wx2	1200Wx2	1500Wx2	2000Wx2
	2Ω Stereo	600Wx2	800Wx2	1200Wx2	1600Wx2	2000Wx2	2400Wx2
	8Ω bridged	900W	1200W	1800W	2400W	3000W	3600W
	4Ω bridged	1200W	1600W	2400W	3200W	4000W	4600W
Amplifier Category	Optimized Class H						
Input Sensitivity	0.775V						
Input Impedance	20KΩ/Balanced,10KΩ/Unbalanced						
Frequency Response	20Hz-20kHz(+0/-0.5dB)						
THD	<0.01%,1kHz						
Slew Rate	>40V/μs						
S/N Ratio	>103dB						
Damping Factor	>500						
Crosstalk	>70dB,1kHz						
Cooling	Dual variable speed fans, high efficiency cooling system						
Protection	Short Circuit,Thermal,Overload,Clip Limiter,DC Fault,AC fuse,Soft-start						
Power Supply	AC220-240V,50/60Hz						
Dimensions (W x D x H)	483 x 510 x 88mm						
Weight		16kg	17kg	22kg	23kg	25kg	28kg

Specifications are subject to change without notice

DT Series Professional Power Amplifier

DT600/DT800/DT1300/DT1600



Descriptions

Adopt the new Class TD circuit design and use traditional transformer power supply, DT Series power amplifiers provide good sound quality and reliability . There are four models in this series: DT600/DT800/DT1300/DT1600, and output power from 600W(8Ω Stereo) to 5200W(4Ω bridge), and they are excellent, powerful and high efficiency, suitable for high-end pubs, clubs etc. entertainment places, large-scale outdoor performances, stadia and arenas, and any other application occasions.

Adopt new Class TD amplification circuit

Quality components, full range electronic circuit protection

Input gain can be selected: 23dB/26dB/29dB/32dB/35dB/38dB/41dB/44dB

Dual variable speed fans, quality skived fin heatsinks for high efficiency cooling system

With XLR inputs, binding post and Speakon outputs

Two channel gain controls, power switch, power LED, signal, Clip, Protect LED indicators

Protection on Short Circuit, Thermal, Overload, Clip Limiter, DC Fault, AC fuse, Soft-start

Rear Panel



Specifications

Model		DT600	DT800	DT1300	DT1600
Output Power	8Ω Stereo	600Wx2	800Wx2	1300Wx2	1600Wx2
	4Ω Stereo	1000Wx2	1300Wx2	2000Wx2	2300Wx2
	2Ω Stereo	1500Wx2	1800Wx2	2400Wx2	2800Wx2
	8Ω bridge	1800W	2600W	4000W	4600W
	4Ω bridge	2500W	3600W	4800W	5200W
Amplifier Category	Class TD				
Amplifier Gain Selectable	23dB/26dB/29dB/32dB/35dB/38dB/41dB/44dB				
VPL Selectable	121V/101V/83V/70V/56V/47V/38V				
VPL(Voltage Peak Limiter) Mode	Hard/Soft				
Input Impedance	20KΩ/Balanced,10KΩ/Unbalanced				
Frequency Response	20Hz-20kHz(±0.3dB)				
THD	<0.1%,1kHz				
Slew Rate	>40V/μs				
S/N Ratio	>103dB				
Damping Factor	>600				
Crosstalk	>70dB,1kHz				
Cooling	Dual variable speed fans,quality skived fin heatsinks				
Protection	Short Circuit,Thermal,Overload,Clip Limiter,DC Fault, AC fuse,Soft-start				
Power Supply	AC220-240V,50/60Hz				
Dimensions (W x D x H)	483 x 460 x 88mm				483x460x132mm
Weight	18kg	20kg	24kg	33kg	

Specifications are subject to change without notice

PA Series Professional Loudspeaker

PA08/PA10/PA12/PA15/PA15H/PA118S/PA218S



Descriptions

PA series loudspeaker system is specially designed to medium and small scale sound reinforcement and flow performance. They are dynamic and powerful with delicate and fashionable appearance.

PA08 is a two-way, full range loudspeaker system. It features one high efficient 8"woofer and one 1.4 " compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conferences, etc.

PA10 is a two-way, full range loudspeaker system. It features one high efficient 10"woofer and one 1.75"compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, etc.

PA12 is a two-way, full range loudspeaker system. It features one high efficient 12" woofer and one 1.75" compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, etc.

Datasheet

PA15 is a two-way, full range loudspeaker system. It features one high efficient 15"woofer and one 2.5 " compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, outdoor performance, etc.

PA15H is a two-way, full range loudspeaker system. It features a high efficient 15"woofers with 4 inch (100mm) voice coil and one 3" compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, outdoor performance, stadia and arenas, etc.

PA118S is a 18"subwoofer, specifically designed to reproduce very deep bass frequencies with maximum efficiency, speed and impact. It is intended to be used in the most demanding touring situations where extreme levels of bass are required. It is also ideal for reproducing the concentrated bass energy of contemporary dance music in disco,club environments.

PA218S is a dual 18"subwoofer, specifically designed to reproduce very deep bass frequencies with maximum efficiency, speed and impact. It is intended to be used in the most demanding touring situations where extreme levels of bass are required. It is also ideal for reproducing the concentrated bass energy of contemporary dance music in disco,club environments.

Specifications

Model	PA08	PA10	PA12	PA15	PA15H	PA118S	PA218S
Type	8"/10"/12"/15"/15" Two Way Full Range Loudspeaker					18" Subwoofer	Dual 18" Subwoofer
Power Handling (RMS/PEAK)	200W/ 400W	300W/ 600W	350W/ 700W	450W/ 900W	700W/ 1400W	600W/ 1200W	1200W/ 2400W
Nominal Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω	4Ω
Frequency Response	65Hz-20k Hz	60Hz-19k Hz	55Hz-19k Hz	50Hz-19k Hz	48Hz-19k Hz	38Hz-200 Hz	32Hz-200 Hz
Sensitivity (1W/1M)	95dB	96dB	97dB	98dB	99dB	103dB	106dB
Maximum SPL(1M)	120dB	123dB	125dB	126dB	129dB	136dB	139dB
Coverage Patterns (H×V)	90°H×50°V	90°H×50°V	90°H×50°V	90°H×50°V	90°H×50°V	—	—

Datasheet

Model	PA08	PA10	PA12	PA15	PA15H	PA118S	PA218S
LF Section	8"(204mm) woofer 50mm (2in) voice coil	10"(254mm)) woofer 65mm (2.5in) voice coil	12"(305mm)) woofer 65mm (2.5in) voice coil	15"(381mm)) woofer 75mm(3in) voice coil	15"(381mm)) woofer 100mm(4in)) voice coil	18"(460mm)) woofer 100mm(4in)) voice coil	2×18" (460mm) woofer 100mm(4in)) voice coil
HF Section	1.4" compressio n driver	1.75" compressio n driver	1.75" compressio n driver	2.5" compressio n driver	3" compressio n driver	—	—
Input Connectors	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon
Enclosure Material	Birch plywood	Birch plywood	Birch plywood	Birch plywood	Birch plywood	Birch plywood	Birch plywood
Surface Finishing	Black paint	Black paint	Black paint	Black paint	Black paint	Black paint	Black paint
Dimensions (WxDxH)m	250x219x406	316x277x515	358x329x581	434x369x675	434x369x675	561x595x690	1066x780x561
Packing Size (WxDxH)m	310x280x480	375x335x580	430x390x660	505x430x750	505x430x750	630x660x790	1105x820x630
Net Weight	11Kg	13Kg	21Kg	31Kg	32Kg	41Kg	81Kg
Gross Weight	13Kg	16Kg	24Kg	34Kg	35Kg	45Kg	85Kg

Specifications are subject to change without notice

PC Series Professional Loudspeaker

PC10/PC12/PC15/PC215/PC12M/PC15M/PC118S/PC218S



Descriptions

PC10 is a two-way, full range loudspeaker system. It features one high efficient 10"woofer and one 1.4 " titanium diaphragm compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, etc.

PC12 is a two-way, full range loudspeaker system. It features one high efficient 12" woofer and one 1.75" titanium diaphragm compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, etc.

PC15 is a two-way, full range loudspeaker system. It features one high efficient 15"woofer and one 2.5 " titanium diaphragm compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, outdoor performance, etc.

PC215 is a two-way, full range loudspeaker system. It features two high efficient 15"woofers and one 2.5"titanium diaphragm compression driver housed in a compact plywood enclosure, combining smooth dynamic full frequency performance with high power driver units. It is particularly suitable for clubs, theaters, halls, discos, conference rooms, auditoriums, outdoor performance, stadia and arenas, etc.

PC12M is a two-way, full range stage monitor speaker system composed of one 12"woofer and one 1.75 " titanium diaphragm compression driver. It combines maximum internal enclosure volume with optimum presentation for near field stage monitor applications.

PC15M is a two-way, full range stage monitor speaker system composed of one 15"woofer and one 1.75"titanium diaphragm compression driver. It combines maximum internal enclosure volume with optimum presentation for near field stage monitor applications.

PC118S is a 18"subwoofer, specifically designed to reproduce very deep bass frequencies with maximum efficiency, speed and impact. It is intended to be used in the most demanding touring situations where extreme levels of bass are required. It is also ideal for reproducing the concentrated bass energy of contemporary dance music in disco,club environments.

PC218S is a dual 18"subwoofer, specifically designed to reproduce very deep bass frequencies with maximum efficiency, speed and impact. It is intended to be used in the most demanding touring situations where extreme levels of bass are required. It is also ideal for reproducing the concentrated bass energy of contemporary dance music in disco,club environments.

Specifications

Model	PC10	PC12	PC15	PC215
Type	10"/12"/15"/Dual15" Two Way Full Range Loudspeaker			
Power Handling (RMS/PEAK)	300W/600W	350W/700W	450W/900W	900W/ 1800W
Nominal Impedance	8Ω	8Ω	8Ω	4Ω
Frequency Response (±3dB)	60Hz-20kHz	55Hz-20kHz	50Hz-18kHz	48Hz-18kHz
Sensitivity (1W/1M)	95dB	97dB	98dB	101dB
Maximum SPL(1M)	122dB	125dB	126dB	130dB
Coverage Patterns (H×V)	90°H×60°V	80°H×50°V	80°H×50°V	80°H×50°V
LF Section	10"(254mm) woofer 65mm (2.5in) voice coil	12"(305mm) woofer 75mm (3in) voice coil	15"(381mm) woofer 75mm(3in) voice coil	2x15"(381mm) woofer 75mm(3in) voice coil
HF Section	1.4" compression driver with 34mm titanium diaphragm	1.75" compression driver with 44mm titanium diaphragm	2.5" compression driver with 63mm titanium diaphragm	2.5" compression driver with 63mm titanium diaphragm
Input Connectors	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon
Enclosure Material	Birch plywood	Birch plywood	Birch plywood	Birch plywood
Surface Finishing	Black paint	Black paint	Black paint	Black paint
Dimensions (WxDxH)mm	295x317x475	360x376x635	432x429x714	453x485x1165
Packing Size (WxDxH)mm	365x385x545	430x440x705	500x500x785	515x555x1235
Net Weight	15Kg	22Kg	28Kg	44Kg
Gross Weight	18Kg	25Kg	31Kg	47Kg

Specifications are subject to change without notice

Datasheet



Model	PC12M	PC15M	PC118S	PC218S
Type	12"/15" Two Way Full Range Monitor		18" Subwoofer	Dual 18" Subwoofer
Power Handling (RMS/PEAK)	350W/700W	450W/900W	600W/1200W	1200W/2400W
Nominal Impedance	8Ω	8Ω	8Ω	4Ω
Frequency Response (±3dB)	55Hz-20kHz	50Hz-20kHz	38Hz-500Hz	35Hz-500Hz
Sensitivity (1W/1M)	97dB	98dB	103dB	106dB
Maximum SPL(1M)	125dB	126dB	135dB	138dB
Coverage Patterns (H×V)	90°H×60°V	90°H×60°V	—	—
LF Section	12"(305mm) woofer 75mm (3in) voice coil	15"(381mm) woofer 75mm(3in) voice coil	18"(460mm) woofer 100mm(4in) voice coil	2×18" (460mm) woofer 100mm(4in) voice coil
HF Section	1.75" compression driver with 44mm titanium diaphragm	1.75" compression driver with 44mm titanium diaphragm	—	—
Input Connectors	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon	2xNL4MP Speakon
Enclosure Material	Birch plywood	Birch plywood	Birch plywood	Birch plywood
Surface Finishing	Black paint	Black paint	Black paint	Black paint
Dimensions (WxDxH)mm	450x552x391	510x604x422	530x780x650	1020x820x530
Packing Size (WxDxH)mm	520x460x620	580x680x490	600x870x720	1090x890x600
Net Weight	19Kg	25Kg	47Kg	73Kg
Gross Weight	22Kg	28Kg	51Kg	78Kg

Specifications are subject to change without notice

M Series Professional Mixer

M6/M10/M14



Descriptions

With 16 kinds of digital effects, ultrathin, portable, suitable for tour performance.

Specifications

Model	M6	M10	M14
Channels	6 CH Mono	6 CH Mono+2 CH Stereo	10 CH Mono+2 CH Stereo
S/N Ratio	≥90dB	≥90dB	≥90dB
Frequency Response	20Hz-20KHz ±1dB	20Hz-20KHz ±1dB	20Hz-20KHz ±1dB
THD	<0.05%	<0.05%	<0.05%
Equalization	HIGH:12kHz ±15dB	HIGH:12kHz ±15dB	HIGH:12kHz ±15dB
	MID:2.5kHz ±15dB	MID:2.5kHz ±15dB	MID:2.5kHz ±15dB
	LOW:80Hz ±15dB	LOW:80Hz ±15dB	LOW:80Hz ±15dB
Dimension(WxDxH)	320x360x50mm	420x360x50mm	530x360x50mm
Packing Size(WxDxH)	400x430x80mm	530x430x80mm	580x430x80mm
Net Weight	4.0Kg	4.5Kg	5.5Kg
Gross Weight	6.0Kg	6.5Kg	7.5Kg

Specifications are subject to change without notice

H Series Professional Mixer

H8/H12/H16



Descriptions

- Easy-access Connector Panel
- Built-in Channel Compressors
- Built-in professional digital effector
- Two SUB outputs, two AUX outputs & Monitor output
- With REC input and output
- Smooth 60-millimeter faders
- 3-band Channel EQ and High-pass Filter
- High-performance Microphone Preamplifiers with Switchable Phantom Power

Specifications

Model	H8	H12	H16
Channels	4 CH Mono+2 CH Stereo	8 CH Mono+2 CH Stereo	12 CH Mono+2 CH Stereo
S/N Ratio	≥90dB	≥90dB	≥90dB
Frequency Response	20Hz-20KHz ±1dB	20Hz-20KHz ±1dB	20Hz-20KHz ±1dB
THD	<0.05%	<0.05%	<0.05%
Equalization	HIGH:12kHz ±15dB	HIGH:12kHz ±15dB	HIGH:12kHz ±15dB
	MID:2.5kHz ±15dB	MID:2.5kHz ±15dB	MID:2.5kHz ±15dB
	LOW:80Hz ±15dB	LOW:80Hz ±15dB	LOW:80Hz ±15dB
Dimension(WxDxH)	330x400x85mm	445x400x85mm	560x400x85mm
Packing Size(WxDxH)	375x510x140mm	495x510x140mm	600x510x140mm
Net Weight	4.5Kg	5.5Kg	7.0Kg
Gross Weight	6.0Kg	7.0Kg	9.0Kg

Specifications are subject to change without notice