



AEX System PD 1000 Series Digital Power Amplifiers are specially designed to be a small form factor compact 100V line power amplifier with no compromise on its output capacity. The Digital Power Amplifiers provide amplification for all audio signals after a preamplifier, digital matrix or any Network Audio Extract device. It uses a high efficiency and robust Class-D amplifier technology. The power amplifiers provide a wide frequency response, low THD+Noise and a high Signal-to-Noise ratio. The PD 1000 series uses a transformerless, technology that reduces electromagnetic noise and improves power efficiency.

The compact PD Series design allows the amplifiers to require less rack space in any equipment room and application that has space constrain. The PD 1000 Series Digital Power Amplifier consist of the following 7 models; PD 1050 (500W Digital Power Amplifier), PD 1060 (600W Digital Power Amplifier), PD 1415 (4 x 150W Digital Power Amplifier), PD 1230 (2 x 300W Digital Power Amplifier), PD 1430 (4 x 300W Digital Power Amplifier), PD 1260 (2 x 600W Digital Power Amplifier) and PD 1120 (1200W Digital Power Amplifier)

- Robust design in an ultra-compact 1U casing
- Transformerless Class-D technology improves power efficiency
- High Signal-to-Noise ratio
- Wide audio bandwidth frequency response
- Very low THD+Noise distortion and crosstalk
- PD 1050 500W Digital Power Amplifier
- PD 1060 600W Digital Power Amplifier
- PD 1120 1 x 1200W Digital Power Amplifier
- PD 1230 2 x 300W Digital Power Amplifier
- PD 1260 2 x 600W Digital Power Amplifier
- PD 1415 4 x 150W Digital Power Amplifier
- PD 1430 4 x 300W Digital Power Amplifier

PD 1050
PD 1060
PD 1120
PD 1230
PD 1260
PD 1415
PD 1430





Technical Specifications

	PD 1050	PD 1060	PD 1120
Rated Output Power	500W	600W	1 Channel x 1200W
Speaker Output	100Vline / 8 Ω		
Frequency Response	20Hz - 20KHz		
THD	< 0.1% (1kHz)		
Signal-to-Noise	> 110dB		
Audio Input Connector	RJ 45 Connector		
Audio Input Sensitivity	0dB		
Input Impedance	10kΩ (Balanced)		
Load Impedance	20Ω (rated)	16.6Ω per Channel (rated)	8.3Ω per Channel (rated)
Audio Output Connector	Screw Terminal		
Protection	Thermal and Overload Protection		
Dimensions (WxHxD)	484 x 44 x 383mm		
Weight	6.9kg	6.9kg	6.9kg
Power Requirement	220 ~ 240 Vac mains 50/60Hz or 24Vdc Battery Backup		
Operation Temperature	-10°C to 40°C		
Relative Humidity	<90%		

	PD 1230	PD 1260	PD 1415	PD 1430
Rated Output Power	2 Channels x 300W	2 Channels x 600W	4 Channels x 150W	4 Channels x 300W
Speaker Output	100Vline / 8Ω			
Frequency Response	20Hz - 20KHz			
THD	< 0.1% at 1kHz			
Signal-to-Noise	> 110dB			
Audio Input Connector	RJ 45 Connector			
Audio Input Sensitivity	0dB			
Input Impedance	10kΩ (Balance)			
Load Impedance	33.3Ω per Channel (rated)	16.6Ω per Channel (rated)	66.6Ω per Channel (rated)	33.3Ω per Channel (rated)
Audio Output Connector	Screw Terminal			
Protection	Thermal and Overload Protection			
Dimensions (WxHxD)	484 x 44 x 383mm			
Weight	7.0kg	7.0kg	7.2kg	7.2kg
Power Requirement	220 ~ 240 Vac mains 50/60Hz or 24Vdc Battery Backup			
Operation Temperature	-10°C to 40°C			
Relative Humidity	<90%			

Engineers' Specification

The digital power amplifier shall have a balanced line level input with gain control. The total harmonic distortion at rated output shall be less than 0.1 % at 1 kHz, and frequency response shall be 20 Hz to 20 kHz. The unit shall consist of a Class-D Digital power amplifier circuit with overload protection and thermal overloading cut off. The unit shall be fan cooled with a friction-less fan design and shall be a transformerless designed for 100Vline distributed speaker system. It shall deliver amplification power of a single channel of 500W rms (PD 1050), a single channel of 600W rms

(PD 1060), 4 channels of 150W rms (PD 1415), 2 channels of 300W rms (PD 1230), 4 channels of 300W rms (PD 1430), 2 channels of 600W rms (PD 1260) and 1200 W rms (PD 1120). The unit shall be able to operate off mains supply or 24 Vdc battery backup supply. The unit shall be 19" rack mountable with dimensions not exceeding 484 x 44 x 383 mm. Weight shall not exceed 7.2kg (PD 1430, PD 1415) / 7.0kg (PD 1260, PD 1230) / 6.9kg (PD 1050, PD 1060, PD 1120).