

PC-1N Series

Power Amplifiers



PC9501N

PC6501N

PC4801N

PC3301N

PC2001N

PC9501N Rear Panel



New benchmarks for quality, reliability, and versatility in professional power applications.

- In-depth analysis and circuit innovation, meticulous part selection, and advanced circuit mounting methods deliver outstanding sound quality with the lowest possible distortion.
- Advanced EEEngine technology achieves high-quality sound and exceptional power output with dramatically reduced power consumption.
- Selectable stereo, dual mono and bridged mono modes for maximum versatility.
- A comprehensive selection of rear-panel terminals and connectors for versatile connectivity.
- An impressive array of protection circuitry and indicators ensure stable operation and accurate monitoring.
- Built-in high-pass (subsonic) filter cuts frequencies below 20 Hz.
- Can be connected to a Yamaha ACU16-C Amplifier Control Unit (optional) and computer to allow monitoring and control of amplifiers and speakers.
- Monitor and control multiple amplifiers on a CobraNet™ network via the Yamaha NHB32-C Network Hub/Bridge.
- The PC3301N has been specially designed for use as a distribution amplifier in installations, and is capable of driving high-impedance loads with multiple parallel-connected 100-volt line speakers.
- Ideal matches for the DME64N/24N Digital Mixing Engines and Installation Series speakers.

PC-1N Series

GENERAL SPECIFICATIONS

Model		PC9501N	PC6501N	PC4801N	PC3301N	PC2001N	PC9501N	PC6501N	PC4801N	PC3301N	PC2001N	
		120V / 240V						230V				
Output Power	4Ω per channel	1600W	1100W	850W	600W	400W	1650W	1150W	800W	700W	450W	
	1kHz	8Ω per channel	1000W	700W	550W	350W	230W	1050W	750W	500W	250W	
	THD+N=1%	8Ω BRIDGE	3200W	2200W	1700W	1200W	800W	3300W	2300W	1600W	1400W	900W
		2Ω per channel	2300W	1500W	1200W	800W	500W	2300W	1600W	1200W	900W	600W
	1kHz	4Ω per channel	1600W	1100W	850W	600W	400W	1650W	1150W	800W	700W	450W
		8Ω per channel	1000W	700W	550W	350W	230W	1050W	750W	500W	400W	250W
	20ms Burst	4Ω BRIDGE	4600W	3000W	2400W	1600W	1000W	4600W	3200W	2400W	1800W	1200W
		8Ω BRIDGE	3200W	2200W	1700W	1200W	650W	3300W	2300W	1600W	1400W	900W
	20Hz-20kHz	4Ω per channel	1400W	930W	725W	525W	325W	1500W	930W	725W	550W	400W
		8Ω per channel	925W	650W	475W	330W	200W	950W	650W	475W	350W	230W
	THD+N=0.1%	8Ω BRIDGE	2800W	1860W	1450W	1050W	650W	3000W	1860W	1400W	1100W	800W
		100V BRIDGE RL=16Ω	-	-	-	625W	-	-	-	-	625W	-
Sensitivity (dBu)	RL=8Ω Att. max	+9.0	+8.0	+6.0	+4.5	+3.0	+9.0	+8.0	+6.0	+4.5	+3.0	
S/N Ratio	20Hz-20kHz (DIN AUDIO)	106dB	105dB	103dB	101dB	100dB	106dB	105dB	103dB	101dB	100dB	
Idle Power Consumption		55W	40W	40W	40W	40W	55W	40W	40W	40W	40W	
1/8 Power Consumption (4Ω)		750W/1000W	700W/800W	450W/600W	450W/500W	350W	1100W	800W	600W	500W	350W	
Power Bandwidth (half power THD+N=0.5%)		10Hz-40kHz										
THD+N	20Hz – 20kHz, half power	0.1%										
Intermodulation Distortion	60Hz: 7kHz, 4:1, half power	0.1%										
Frequency Response	8Ω, Po=1W	MAX 0dB, TYP 0dB, MIN -1dB f=20Hz-50kHz										
Channel Separation	Half power RL=8Ω 1kHz ATT. Max input 600Ω shunt	≥ 70dB										
Residual Noise Att. min	20Hz-20kHz (DIN AUDIO)	≤ -70dB										
Damping Factor	8Ω, f=1kHz	800 (except PC2001N)/500 (PC2001N)										
Voltage Gain	ATT. max	32dB										
Maximum Input Voltage		22dB										
Input Impedance		20kΩ (balanced) 10kΩ (unbalanced)										
Controls	Front panel	POWER switch (push on/push off), Attenuator (31position) x 2										
	Rear panel	MODE switch (STEREO/BRIDGE/PARALLEL), HPF switch (ON/OFF fc=20Hz 12dB/oct), AMP ID switch (6PDIIP) x 1										
Connectors	Input	XLR-3-31 type/ch, Euroblock connector (balanced)/ch										
	Output	SPEAKON/ch, 5way binding post x 1										
	DATA PORT	RJ45 x 2										
	Power	AC inlet x 1										
Indicators		POWER/STAND-BY: x 1 (Green/Orange), PROTECTION: x 1 Red, TEMP: x 1 (Red) heatsink temp ≥ 85°C, REMOTE: x 1 (Green)										
Level Meters		10 points LED meter/ch										
Load Protection		POWER switch on/off mute, DC-fault power supply shutdown										
Amplifier Protection		Thermal (heatsink temp ≥ 90°C), VI limiter (RL≤ 1Ω)										
Limiter Circuit		Clip limiting :THD ≥ 0.5%										
Cooling		Dual Variable-speed fan										
Power Requirements		120V / 60Hz, 230V / 50Hz, 240V / 50Hz										
Dimensions (W x H x D)		480 x 88 x 456 mm (18-7/8" x 3-7/16" x 17-15/16")										
Weight		12.5 Kg (27.6 lbs) (except PC9501N) 13kg (PC9501N)										
Included Accessories		Power cord, Security cover, Owner's Manual, 3-pin Euroblock connector x 2										

*1: 1/8 Power = 9dB below rated power

*2: Half Power = 3dB below rated power

*3: 0dBu = 0.775Vrms

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DIMENSIONS

