

## P-series

Lightweight, switch mode Class-H power amplifiers designed for high-end installations and tour applications. With superb audio quality, reliable technology and a light weight, the P-series easily handles the most demanding performances, whether it being recorded or live music.

Ultra low distortion of 0,05% THD, high quality components, class-H technology and third generation switch mode power supply are but some features that gives the amplifiers in the P-series the high sound quality, low weight and reliable technology.

As an addition, the P10000 (2x5000W) amplifier has PFC (Power Factor Correction) and OVP (matching impedance 2, 4, 8 ohm) furthermore, the P3000DSP has six high precision 96kHz/32bit DSP processors and digital AES/EBU in.

This gives the P-series an unsurpassed versatility in combinations. whether it being in an installation where the P3000DSP controls external amplifiers, both processing subwoofers and mid/high speakers, or in tour applications using a 19" rack packed with P3000DSP's, with different pre-programmed setups stored, for different combinations in speakers and gigs.

## Features

- Three different models ranging from 2 x 650W / 8 ohm to 2 x 5000W / 2ohm
- Class-H technology & switched mode power supply, resulting in light weight amplifiers with astounding performance and reliability.
- Outstanding sound quality with extremely low distortion levels of only 0,05% THD @ 1dB below clipping
- Extensive protection systems against: overload, clip, thermal, short circuit, internal malfunction, faulty power.

## Extra features on the P3000DSP

- 2 inputs, analogue or digital select able (AES/EBU) with full DSP processing power.
- 4 outputs. (2 outputs are powered, 2 outputs are used for signal processing of external amplifier, via two Neutrik XLR out.
- Two DSP's control the Neutrik speakon out, two DSP's control the XLR aux out and can process any standard amplifiers as a slave, handling EQ, Delay, Crossover, Limiter, gain, signal routing, etc.
- 6 pcs of 96kHz / 32 bit built-in DSP's, with full processing power. (2 in / 4 out)
- Removable front-grille with dust cover, for easy service and a longer life span of the amplifiers.
- Can be programmed either using the buttons and the jog-wheels on the front panel or via the software
- Pre-programmed presets to download from our web site for our speaker systems.
- 256 amplifiers can be connected in an array, with ID 1-256, controlled by a computer with the GUI software

• Input	Analogue:	2 channels, electronically balanced, +20dBu, 10K ohm impedance
	Digital:	2 channels, max levels +0dBfs, 10K ohm impedance
• Output	4 channels	2 x Neutrik Speakon pin1+/1-, max 2 x 1500W@2ohm 2 x XLR male electronically balanced signal output via DSP
• Dynamic range		<105dBu, 20Hz - 20kHz
• Frequency response		>+/-0,25dBu, 10Hz - 40kHz, without filters
• Distortion		<0,01%, 10Hz - 40kHz@+10dBu input level
• Sampling rate		96kHz
• Crosstalk		>80dBu, 20Hz - 20kHz
• Data format AD/DA		24-bit, input and output
• Crossover type		Bessel, Linkwitz-Riley, Butterworth 12, 18, 24, 48 dB / oct..
• Compressor		2-stage limiter with threshold
• EQ input		6 x full parametric EQ, 20Hz - 20kHz, +/- 20dB in steps of 0,1dB, bandwidth 0,05 to 3,0
• EQ output		6 x full parametric EQ, 20Hz - 20kHz, +/- 20dB in steps of 0,1dB, bandwidth 0,05 to 3,0
• Delay		Max 2000mS in steps of 10,4uS
• Latency		625uS @ 96kHz
• Connectors		2 x XLR analogue input, 2 x XLR analogue Aux output (via DSP) 1 x XLR digital input, 3 x RJ45 (RS485) 1 for programming, 2 for patching and linking several amplifiers
• Software		Fully graphical software included, easy to access all features, easy to manage.
• Front panel		All features and DSP settings can easily be programmed via the front-panel using the jog-wheel and the 3 buttons



# P-SERIES AMPLIFIERS



## TECHNICAL SPECIFICATIONS P-SERIES POWER AMPLIFIERS

Model	P3000	P3000DSP	P10000
Max output power RMS, @1kHz, 0,1% THD			
8 ohm, both channels driven	2 x 650W	2 x 650W	2 x 1800W
4 ohm, both channels driven	2 x 1000W	2 x 1000W	2 x 3400W
2 ohm, both channels driven	2 x 1500W	2 x 1500W	2 x 5000W
8 ohm, Bridged	2200W	2200W	10000W
THD @ 1kHz, 1dB below clipping	0,05%	0,05%	0,05%
Slew rate	55V us	55V us	55V us
Damping factor	500	500	1000
Input connectors, signal input	2 x Neutrik XLR female	2 x Neutrik XLR female	2 x Neutrik XLR female
Signal link / through / out	2 x Neutrik XLR male	2 x Neutrik XLR male	2 x Neutrik XLR male
Output connectors speaker out	2 x Neutrik speakon pole screw terminals	2 x Neutrik speakon pole screw terminals	2 x Neutrik speakon pole screw terminals
Power input	Neutrik Powercon	Neutrik Powercon	Neutrik Powercon
Mode switch	Stereo / bridge / parallel	DSP signal routing	Stereo / bridge / parallel
Sensitivity switch	26dB / 32dB / 1,4V	26dB / 32dB / 1,4V	26dB / 32dB / 1,4V
Impedance matching switch	-	-	2 Ohm / 4 Ohm / 8 Ohm
Operation voltage	230V/50HZ +-10%	230V/50HZ +-10%	198V - 242V, with PFC (power factor correction)
Soft start	Yes	Yes	Yes
Protection	Overload, clip, thermal, shortcircuit, internal faults,	Overload, clip, thermal, shortcircuit, internal faults,	Overload, clip, thermal, shortcircuit, internal faults,
Dimension mm. W x D x H	484 x 440 x 89	484 x 440 x 89	484 x 440 x 89
Mounting rack height	2 RU (Rack Units)	2 RU (Rack Units)	2 RU (Rack Units)
Net weight kg.	12	13	14,5
Shipping weight kg.	14	15	16,5