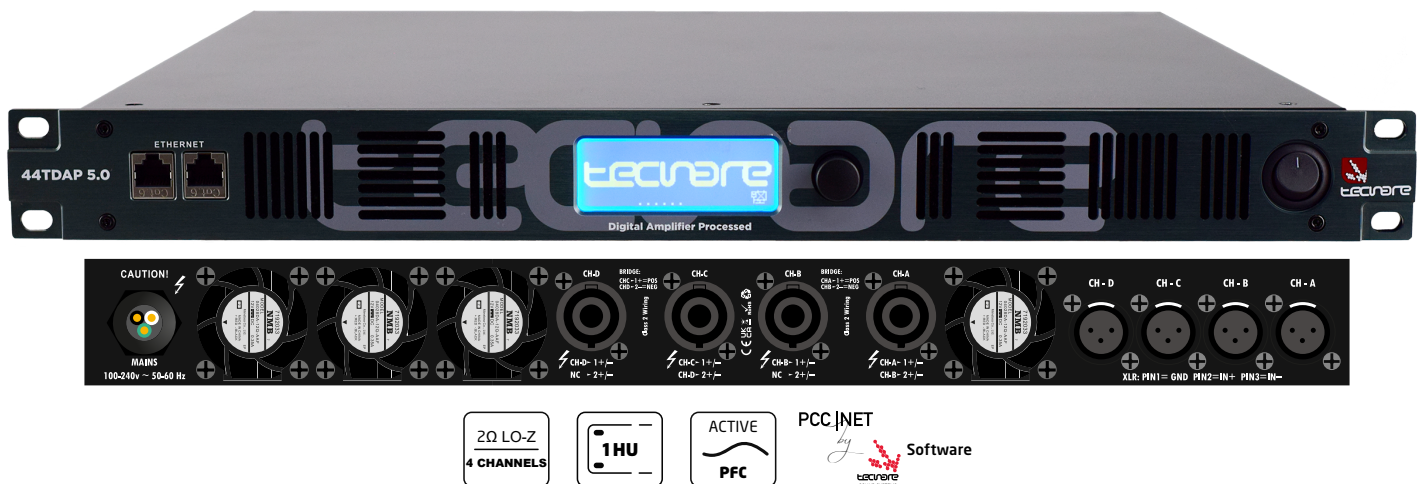


FOUR-CHANNELS CLASS D-PROFESSIONAL AMPLIFIER



DESCRIPTION

The 44TDAP DSP amplifier systems integrate light-weight power supplies, high power sonically transparent class-D amplifiers, complete system monitoring and a full featured ETHERNET network controlled 32 bit / 48kHz DSP processing platform, handled by the front panel dual RJ45 connectors, as standard.

44TDAP Series have been engineered for mid sized installations, rental and touring applications, adopting circuit architecture of multi-loop control technology, bearing-up constant resistance output and developed for low-impedance and high-current, as a result we obtain a power amplifier with a 90% efficiency and an incomparable stability.

All 44TDAP Series amplifiers come with built-in active Power Factor Correction and soft switching technology. It can ensure that a predominantly resistive load is presented to mains thus minimizing current distortion and voltage/current displacement. This leads to improved performance of the amplifier at high levels of output and avoids mains-voltage collapses, typical of standard and switching power supplies. Another great advantage of this technology is that its performance is, to a large extent, independent of mains voltage. The rated output power does not vary with load/line conditions.

The advanced 48kHz DSP is fully integrated into the product and provides an amount of useful features. Its powerful Limiter suite provides Peak and RMS limiting, as well as multi-band limiting for passive 2-way enclosures. Many convenient features are provided as Gain, delay, EQ and a powerful FIR filtering with 512 taps, bringing linear phase response to the TecnaRE presets.

44TDAP Series use the innovative TecnaRE PCC-Net software to remote control like equipment specifications, commissionings, and on-going control and system monitoring.

MAIN APPLICATIONS

- Small to Medium-scale venues
- Portable sound and stage monitoring
- Convention centres
- House of worship
- Distributed, Fill and Under Balcony

MAIN FEATURES

- Four-channels of efficient Class-D amp
- 1HU, 19" rack, exceptional lightweight
- Active Power Factor Correction (APFC)
- Global mains operation, 100-240 auto-sensing
- Integrated 32 bits, 48kHz DSP with FIR filters
- Ethernet control
- Balanced XLR input; Speakon output

4 channels, power output per channels

	44TDAP1.3	44TDAP3.0	44TDAP5.0
2 Ohm	1300 Watt	3000 Watt	5000 Watt
4 Ohm	750 Watt	1700 Watt	3400 Watt
8 Ohm	450 Watt	1000 Watt	2000 Watt

Technical Specifications

Rated Power/model		44TDAP1.3	44TDAP3.0	44TDAP5.0
2Ω nominal load stereo (per channel); Crest Factor of 7.8 (18dB)*		1300W	3000W	5000W
4Ω nominal load stereo (per channel); Crest Factor of 4.8 (14dB)*		750W	1700W	3400W
8Ω nominal load stereo (per channel); Crest Factor of 2.8 (9dB)*		450W	1000W	2000W
4Ω nominal load Bridge mono		2600W	6000W	9600W
8Ω nominal load Bridge mono		1500W	3400W	7000W
Performance				
Number of input channels / Number of output channels		4 x XLR / 4 x Lo-Z Speakon		
Frequency response		±0.5dB,10% Rate Power, 20Hz-20kHz, 8Ω		
Total Harmonic distortion, THD+N		Typical: 0.05% (10% Rated Power, 1kHz, 8Ω)		
Inter-channel crosstalk (worst combination of channels)		≥90dB (Below Rated Power, 20Hz - 1kHz, 8Ω)		
Damping Factor @ 8Ω		Typical: 1000 (20-200Hz)		
Analogue Input sensitivity range for full output		0dBu to +21dBu (8.7Vrms) continuously adjustable		
Input impedance		20k Ohm, electronically balanced		
Gain volt (Rated Power, @1kHz)		18dB	21dB	24dB
RMS Voltage		72.1V	109.5V	126.5V
Processing				
Resolution / Sample rate		32 bits, using proprieteri algorithms / 48 kHz		
Loudspeaker processing	Up to 4 module of Classic crossover, FIR filter, In & Out EQ, delay, RMS & Peak limiters, multiband compressor			
Construction				
Protection System	Excessive output current, temperature, overload, mains voltage, DC offset, RMS & peak limiter			
Airflow	Flow-through ventilation from front to back			
Cooling	Internal heat sinks with force air. Fan cooled, variable speed; thermal protection.			
Mains Input	3 x 2.5mm² power cord			
Enclosure		482x44,5x376(mm) (19"x1.75"x14.8")		482x44,5x465 (mm) 19"x1.75"x18.3"
Net Weight		8,3kg. / 9.37lbs	9,4kg. / 20.72lbs	12,45kg. / 27.44lbs

RMS output power per channels driven @ 1kHz continue sine wave and a nominal ambient temperature of 40degC / 105degF, THD+N=1%

* Test condition = 20ms



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