

T20-44



T Series

The **Tecnaire 44 series** amplifiers represent the leading edge of amplifier design in the audio industry. Just think on a truly **20,000 watts** amplifier, managed with the most advanced processor available, weighing only 9 kg in a 2 U rack chassis.

Offering a unique combination of power and audio performance, seamlessly combined with advanced **DSP and network control**. Tecnaire's **T series** range of four channel amplifiers is available in models developing between 4,500Watts and 5,000 Watts per channel. Each channel of can be configured to deliver it's maximum powers into **2 or 4 Ohm** nominal loads, therefore offering designers and integrators unparalleled flexibility.

T10-48



This truly revolutionary amplifier platform provides a logical front panel user interface and powerful **Ethernet** based remote control. The device can be configured via its front panel LCD screen, and via PC connection thanks to its RS45 port and a modern TCP-based protocol.

Both provide access to all features allowing rapid system configuration with full performance monitoring and analytics, offering protections against clipping, high voltages or current, and driver overexcursion and overheating. Its functional parameters, mains voltage, current draw, impedance load or protection trigger, are monitored and saved, so it can be recalled at any time. These amplifiers simply surpass any other similar products out there comparing power output, sonic performance and efficiency.

Model	T20-44	T10-44	T16-44
General specifications			
Number of Channels	4	4	4
Power Output, all channels driven (RMS)	4 x 2500 Watt @ 4 ohm / 4 x 5000 Watt @ 2 ohm / 2 x 10000 Watt @ 4 ohm Bridge	4 x 2500 Watt @ 4 ohm / 4 x 2500 Watt @ 2 ohm / 2 x 5000 Watt @ 4 ohm Bridge	4 x 750 Watt @ 4 ohm / 4 x 750 Watt @ 2 ohm / 2 x 1500 Watt @ 4 ohm Bridge
Audio performance			
Gain (with all the DSP level controls set to 0dB)	32db	32db	32 db
Frequency response, 4 Ohm load	<7Hz to >30kHz, 4 Ohms, -2,5dB points	<7Hz to >30kHz, 4 Ohms, -2,5dB points	<7Hz to >30kHz, 4 Ohms, -2,5dB points
Inter channel crosstalk, worst case combination	better than -85dB at 1kHz and -75dB at 10kHz	better than -85dB at 1kHz and -75dB at 10kHz	better than -85dB at 1kHz and -75dB at 10kHz
Total harmonic distortion, THD	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load
Power supply			
Topology (main power supply)	High performance Series Resonant	High performance Series Resonant	High performance Series Resonant
Topology (auxiliary and standby supplies)	Low quiescent Eco-Flyback	Low quiescent Eco-Flyback	Low quiescent Eco-Flyback
Nominal mains input voltage range	85V to 240V, Power supply automatically detects voltage and configures accordingly	85V to 240V, Power supply automatically detects voltage and configures accordingly	85V to 240V, Power supply automatically detects voltage and configures accordingly
Physical			
Audio Input	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3
Amplifiers Output	4x Neutrik Speakon [™] NL4 connectors	4x Neutrik Speakon [™] NL4 connectors	4x Neutrik Speakon [™] NL4 connectors
Network data port RS485	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection
Dante Primary and Secondary	2x Shielded RJ45	2x Shielded RJ45	2x Shielded RJ45
Enclosure	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support
Net Weight	12.5 kg (27.5 pounds)	12.5 kg (27.5 pounds)	12.5 kg (27.5 pounds)

Model	T10-48	T16-48	T3-48
General specifications			
Number of Channels	4	4	4
Power Output, all channels driven (RMS)	4 x 1250 Watt @ 4 ohm / 4 x 1250 Watt @ 2 ohm / 2 x 2500 Watt @ 4 ohm Bridge	4 x 750 Watt @ 4 ohm / 4 x 750 Watt @ 2 ohm / 2 x 1500 Watt @ 4 ohm Bridge	4 x 400 Watt @ 4 ohm / 4 x 400 Watt @ 2 ohm / 2 x 800 Watt @ 4 ohm Bridge
Audio performance			
Gain (with all the DSP level controls set to 0dB)	32db	32 db	32 db
Frequency response, 4 Ohm load	<7Hz to >30kHz, 4 Ohms, -2,5dB points	<7Hz to >30kHz, 4 Ohms, -2,5dB points	<7Hz to >30kHz, 4 Ohms, -2,5dB points
Inter channel crosstalk, worst case combination	better than -85dB at 1kHz and -75dB at 10kHz	better than -85dB at 1kHz and -75dB at 10kHz	better than -85dB at 1kHz and -75dB at 10kHz
Total harmonic distortion, THD	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load	<0.05% typical, 1kHz signal, AES17 filter, 4 Ohm load
Power supply			
Topology (main power supply)	High performance Series Resonant	High performance Series Resonant	High performance Series Resonant
Topology (auxiliary and standby supplies)	Low quiescent Eco-Flyback	Low quiescent Eco-Flyback	Low quiescent Eco-Flyback
Nominal mains input voltage range	85V to 240V, Power supply automatically detects voltage and configures accordingly	85V to 240V, Power supply automatically detects voltage and configures accordingly	85V to 240V, Power supply automatically detects voltage and configures accordingly
Physical			
Audio Input	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3	Analog, 4x female and 4x male Neutrik [™] XLR-3 / 1 x Male and 1 x female Neutrik [™] XLR-3
Amplifiers Output	4x Neutrik Speakon [™] NL4 connectors	4x Neutrik Speakon [™] NL4 connectors	4x Neutrik Speakon [™] NL4 connectors
Network data port RS485	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection	1 x Shielded RJ45 with 2 recessed rotary encoders for ID selection
Dante Primary and Secondary	2x Shielded RJ45	2x Shielded RJ45	2x Shielded RJ45
Enclosure	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support	Standard 19" 2U (88 mm), 357 mm (14") deep with handles and optional rear support
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