

TXn Series

Power Amplifiers



TX6n



TX5n



TX4n



TX6n Rear Panel



High power touring amplifiers with internal DSP and advanced networking capabilities.

- High power for tour applications: TX6n = 3000W (4 ohms/per channel), TX5n = 2500W, TX4n = 2200W (2 ohms/ per channel).
- Stable 2-ohm drive capability for line array speaker systems.
- Yamaha DSP technology provides extensive monitoring, control, input/speaker processing, and protection functions built in.
- MY card slot makes it easy to match the amplifier's I/O configuration to the system -- analog or digital.
- The analog and digital inputs can be used independently, or signals can be applied to both and mixed or switched automatically for redundancy.
- Advanced remote monitoring, control, and system management capabilities via Yamaha's dedicated software.
- Legendary Yamaha quality control for consistently superior sonic quality and reliability.
- Dual mono configuration with independent power supplies for each channel.
- Yamaha EEEngine amp drive technology achieves efficiency that matches class D amplifiers.
- Exhaustive vibration-reduction measures have resulted in unprecedented sound quality.
- A durable exterior, large cooling fans and fan guards, easily replaceable filters, and other reliability features deliver dependability even under demanding tour conditions.
- A variety of I/O terminals, removable handles, and other features for maximum installation and handling versatility.

Amplifier Control & Settings

Power on/off
Muting
Input Type: Analog/AES/EBU/EtherSound* (with optional card)/CobraNet* (with optional card)/MY slot input with analog backup/MY slot input with analog override
Output Modes: Stereo/Bridge/Parallel
Input mixer
Analog input sensitivity and gain
Attenuator link and limits
Limiters Settings: Clip limiter/Power limiter/Thermal limiter (heatsink)/Limiter tie

Speaker Processing

Low-pass and high-pass filters
Low and high shelving filters
Parametric EQ
All-pass filter
Delay
Limiter
Polarity inverter
Oscillator

Security

Lockout level settings
Password

Other

Contrast
Display
Firmware version and other info
Internal clock and error report

GENERAL SPECIFICATIONS

Model			TX6n	TX5n	TX4n	TX6n	TX5n	TX4n
			120V			230V *1		
Output Power	1kHz, THD+N = 1%	2Ω	2750W x 2	2500W x 2	2200W x 2	2750W x 2	2500W x 2	2200W x 2
		4Ω	3000W x 2	2200W x 2	1900W x 2	3000W x 2	2300W x 2	2000W x 2
		8Ω	1800W x 2	1300W x 2	1100W x 2	1800W x 2	1300W x 2	1100W x 2
		4Ω bridge	5500W	5000W	4400W	5500W	5000W	4400W
		8Ω bridge	6000W	4400W	3800W	6000W	4600W	4000W
	1kHz, 20ms burst	2Ω	4100W x 2	3480W x 2	2990W x 2	4120W x 2	3600W x 2	3050W x 2
		4Ω bridge	8200W	6960W	5980W	8240W	7200W	6100W
High Impedance	100V Line	-	1250W x 2/8Ω	-	-	1250W x 2/8Ω	-	
Voltage Gain	RL=8Ω	43.8dB ~ 19.8dB, 0.1dB step						
Input Sensitivity	RL=8Ω	0.0dBu ~ 24.0dBu, 0.1dB step	-1.4dBu ~ 22.6dBu, 0.1dB step	-2.6dBu ~ 21.4dBu, 0.1dB step	0.0dBu ~ 24.0dBu, 0.1dB step	-1.4dBu ~ 22.6dBu, 0.1dB step	-2.6dBu ~ 21.4dBu, 0.1dB step	
S/N Ratio	20Hz-20kHz, DIN AUDIO AES/EBU [INPUT] to [SPEAKER] output	108dB	107dB	106dB	108dB	107dB	106dB	
Power Consumption	1/8 power (2Ω pink noise)	1800W	1600W	1500W	1800W	1600W	1500W	
	Idle	75W	75W	75W	75W	75W	75W	
	Standby	20W	20W	20W	20W	20W	20W	
THD+N	20Hz-20kHz, 1/2 power, RL=4Ω	Less than 0.2%						
Frequency Response	RL=8Ω, Po=1W, 20Hz - 20kHz	+0dB, -1.0dB						
Crosstalk	1kHz, half power, 8Ω Att. max, input 600Ω shunt	Less than -65dB						
Damping Factor	RL=8Ω, ≤100Hz	More than 300						
Maximum Input Level		+24dBu						
Input Impedance		20kΩ (balanced), 10kΩ (unbalanced)						
Signal Delay	Fs=96kHz	0.729ms (Analog input to Speaker output)						
Controls	Front Panel	POWER switch x 1 (rocker), Rotary encoder x 2, Function button x 4, HOME button x 1, EXIT button x 1, ENTER button x 1, Mute button x 2						
Connectors	Analog input	In	XLR-3-31 type x 2					
		Thru	XLR-3-32 type x 2					
	AES/EBU input/output	In	XLR-3-31 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
		Thru	XLR-3-32 type x 1 (2 channels)					
		Out	XLR-3-32 type x 1 (2 channels, 24-bit 96kHz ~ 44.1kHz)					
	Speaker output	Neutrik® SPEAKON® NL4 x 2, 5-way binding post x 2 pairs						
Network	RJ45 x 1							
	Fault output	Euroblock connector x 1 (3P)						
Indicators		IDENTIFY, NETWORK, PROTECTION, BRIDGE, PARALLEL, POWER, STANDBY, MUTE, ALERT, CLIP, SIGNAL						
Load Protection		POWER switch on/off mute, DC-fault: Amplifier shuts down automatically, Clip limiting: THD ≥ 0.5%						
Amplifier Protection		Thermal: Output Mute (heatsink temp ≥ 90°C) (Restored automatically), VI limiter (RL ≤ 1Ω) : Limit the output						
Power Supply Protection		Thermal: Amplifier shuts down automatically (heatsink temp ≥ 100°C)						
Cooling Fan		Variable speed fan x 2						
Power Requirements		120V, 220V-240V; 50Hz/60Hz (120V models use 30A twist lock connector)						
Dimensions (WxHxD)		480 X 88 X 461mm (18-7/8" x 3-7/16" x 18-1/8")						
Weight		16kg (35.3lbs)						
Included Accessories		Handle x 2, Flat-head screw x 4, Euroblock connector x 1 (3P), Owner's manual						

*1. Output power depends on the power supply voltage. These figures are based on 230V. If the power supply voltages is 220V, output power can be 8% less that the power shown in the spreadsheet.
 Output power can be 7% more in case of 240V.
 * Half power = 1/2 power output level

DIMENSIONS

