

TXn Series

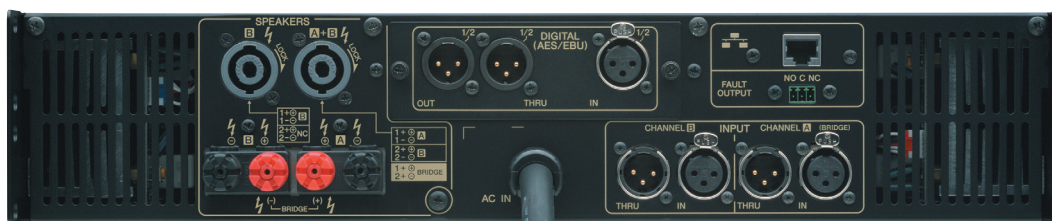
Power Amplifiers



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.
- Original 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
Limiter 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
Constant Voltage Line 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 than the power shown in the spreadsheet.

Output power can be 7% more in case of 240V.

* Half power = 1/2 power output level

DIMENSIONS

unit : mm

